

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				FORM 3 AMENDED REPORT		
APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 921-35H1BS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22582		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2143 FNL 486 FEL	SENE	35	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	1411 FNL 494 FEL	SENE	35	9.0 S	21.0 E	S
At Total Depth	1411 FNL 494 FEL	SENE	35	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 494		23. NUMBER OF ACRES IN DRILLING UNIT 321		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 675		26. PROPOSED DEPTH MD: 9783 TVD: 9685		
27. ELEVATION - GROUND LEVEL 5098		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156		
SIGNATURE		DATE 11/23/2010		EMAIL gnbregulatory@anadarko.com		
API NUMBER ASSIGNED 43047513650000		APPROVAL <div style="text-align: center;"> Permit Manager </div>				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9783		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9783	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2610		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2610	28.0			

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-35H1BS**

Surface: 2143 FNL / 486 FEL SENE
BHL: 1411 FNL / 494 FEL SENE

Section 35 T9S R21E

Unitah County, Utah
Mineral Lease: ST UT ML 22582

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1458	
Birds Nest	1785	Water
Mahogany	2160	Water
Wasatch	4748	Gas
Mesaverde	7448	Gas
MVU2	8361	Gas
MVL1	8946	Gas
TVD	9685	
TD	9783	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 9,685' TVD, approximately equals 5,933 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,803 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

*Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance*

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie

line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations. 4 of 16

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. **Other Information:**

Please refer to the attached Drilling Program.

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	November 17, 2010	
WELL NAME	NBU 921-35H1BS					TD	9,685'	9,783' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,098'
SURFACE LOCATION	SENE	2143 FNL	486 FEL	Sec 35	T 9S	R 21E		
	Latitude:	39.993902	Longitude:	-109.510523		NAD 27		
BTM HOLE LOCATION	SENE	1411 FNL	494 FEL	Sec 35	T 9S	R 21E		
	Latitude:	39.995911	Longitude:	-109.510555		NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.							

NBU 921-35H Directional Program Template



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,610	28.00	IJ-55	LTC	0.86	1.54	4.71
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,783	11.60	I-80	BTC	1.99	1.05	2.81

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.06

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,803 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.0 ppg)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,933 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,110'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,243'	Premium Lite II +0.25 pps	310	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,540'	50/50 Poz/G + 10% salt + 2% gel	1,070	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

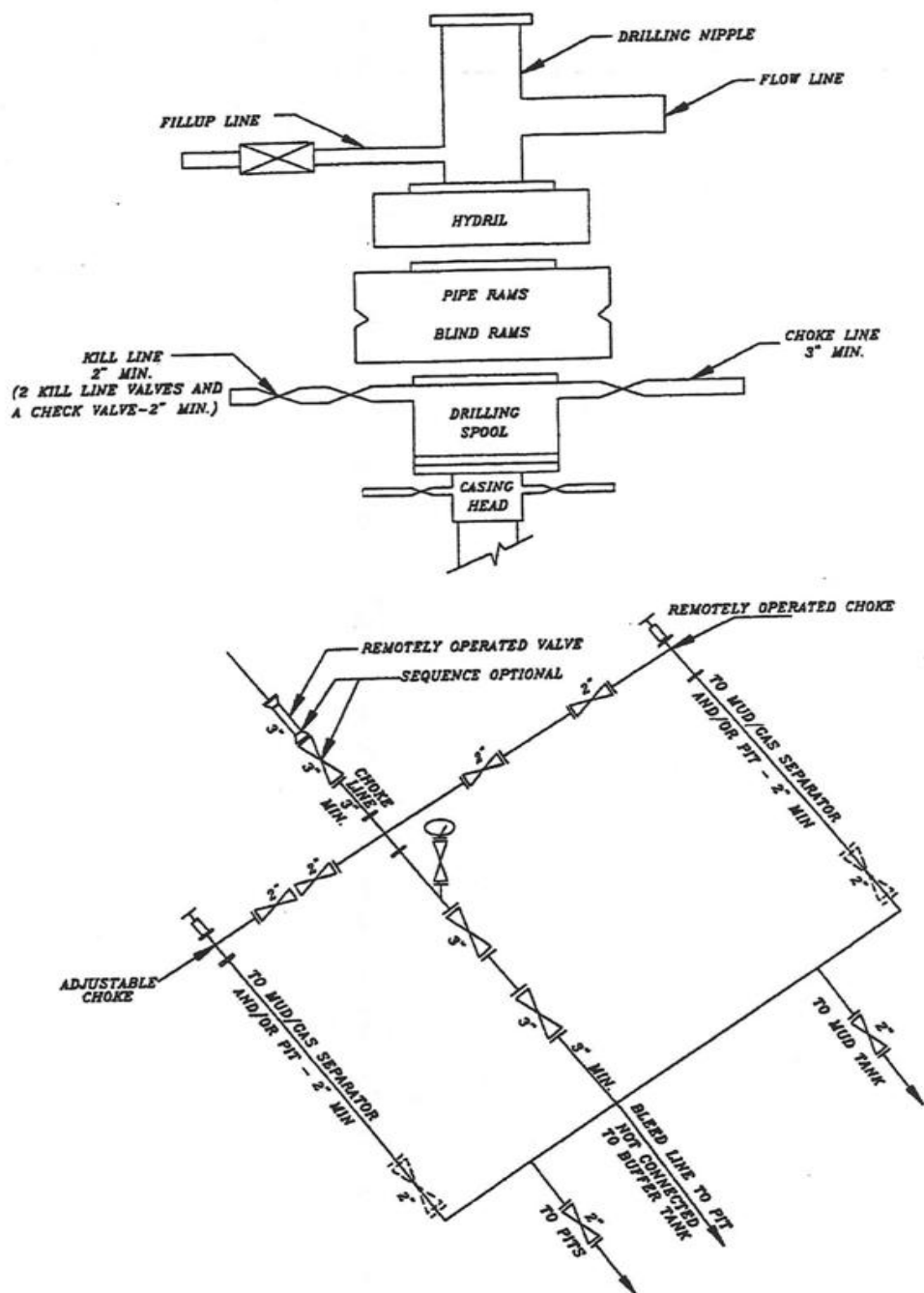
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

EXHIBIT A
NBU 921-35H1BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.

WEST - 80.00 (G.L.O.)

N89°47'37"W - 2646.18' (Meas.)

N89°47'25"W - 2645.99' (Meas.)

Found 1"
Aluminum Cap on
5/8" Rebar. Pile
of Stones.Found Uintah
County Aluminum
Cap in Pile of
Stones.Found Uintah
County Aluminum
Cap in Pile of
Stones.

N00°21'17"W - 2645.28' (Meas.)

N00°03'W - 81.10 (G.L.O.)

N00°12'59"E

2703.72' (Measured to C.C.)

2702.74' (Measured to True Corner)

Found Uintah County
Surveyor 1½" Aluminum
Cap on 5/8" Rebar in
Pile of Stones.**WELL LOCATION:****NBU 921-35H1BS**

ELEV. UNGRADED GROUND = 5098.3'

35

NBU 921-35H1BS (Surface Position)

NAD 83 LATITUDE = 39.993867° (39° 59' 37.922")

LONGITUDE = 109.511210° (109° 30' 40.356")

NAD 27 LATITUDE = 39.993902° (39° 59' 38.048")

LONGITUDE = 109.510523° (109° 30' 37.883")

NBU 921-35H1BS (Bottom Hole)

NAD 83 LATITUDE = 39.995876° (39° 59' 45.154")

LONGITUDE = 109.511242° (109° 30' 40.471")

NAD 27 LATITUDE = 39.995911° (39° 59' 45.280")

LONGITUDE = 109.510555° (109° 30' 37.998")

LOT 4

LOT 1

Found 1977
Brass Cap in
Pile of Stones.Found 1½" Aluminum
Cap on 5/8" Rebar in
Pile of Stones.2.50 (G.L.O.)
164.44'Found 1977 Brass
Cap in Pile of Stones.

2501.71'

LOT 3

LOT 2

2.19 (G.L.O.)
144.58'Found 1977
Brass Cap

2543.51'

S89°07'53"W - 2666.15' (Meas.)

S89°06'W - 40.39 (G.L.O.)

Found 1977
Brass Cap

S89°14'29"W - 2688.09' (Meas.)

S89°12'W - 40.73 (G.L.O.)

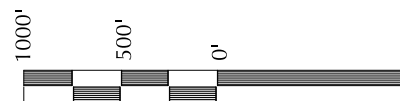
Found 1977
Brass Cap99.10'
1.51 (G.L.O.)
2678.51' (Meas.)
S89°06'03"W
S89°06'W - 40.59 (G.L.O.)Found 1977
Brass Cap in
Pile of Stones.Found 1977
Brass Cap**NOTES:**

▲ = Section Corners Located

- Well footages are measured at right angles to the Section Lines.
- G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- The Bottom of hole bears N00°40'09"W 732.07' from the Surface Position.
- Bearings are based on Global Positioning Satellite observations.
- Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-35H**NBU 921-35H1BS****WELL PLAT****1411' FNL, 494' FEL (Bottom Hole)****SE ¼ NE ¼ OF SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.****CONSULTING, LLC**2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

John R. Slough
No. 6028691
JOHN R. SLOUGH

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.

209 NORTH 300 WEST - VERNAL, UTAH 84078

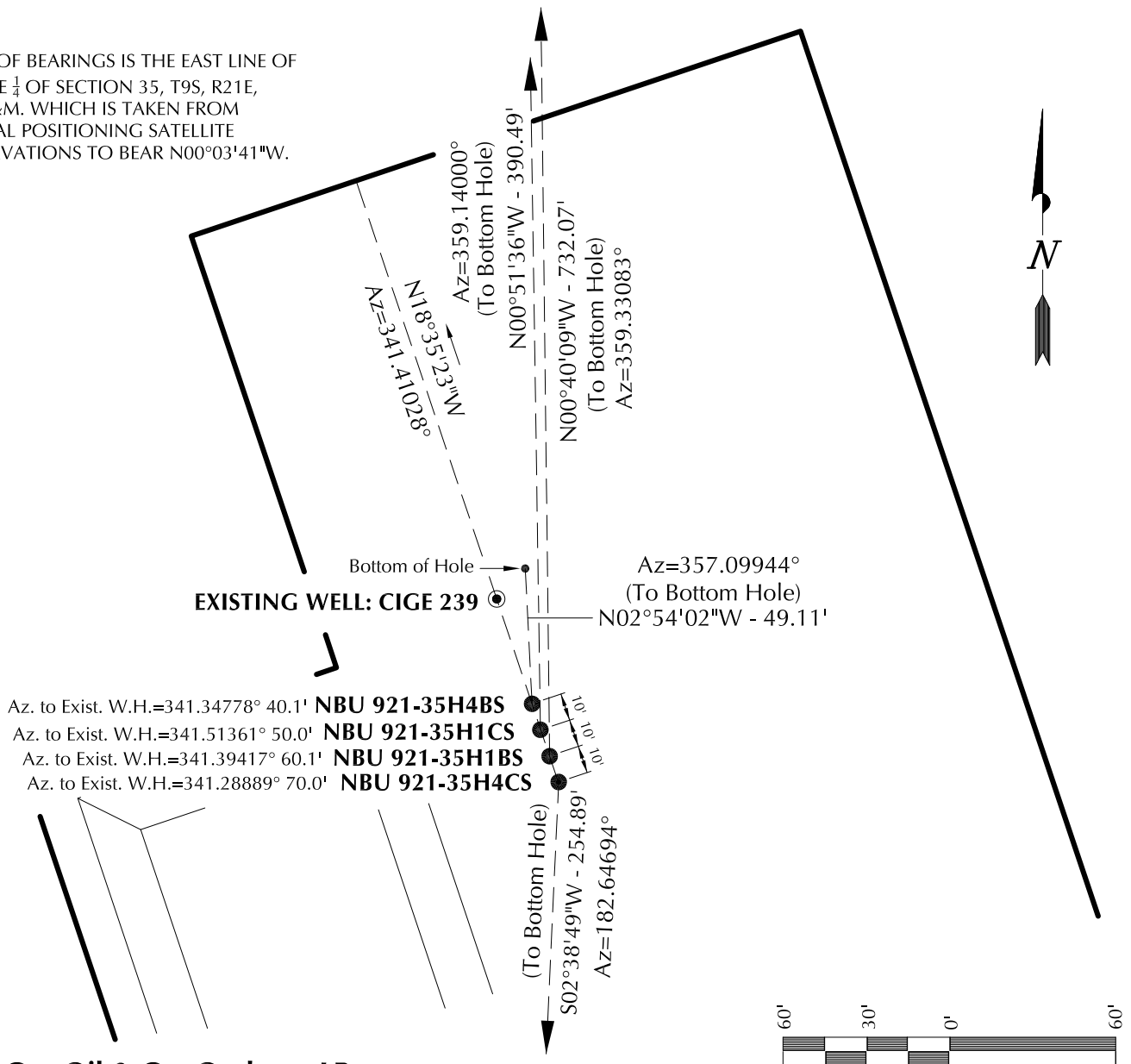
DATE SURVEYED: 9-30-10	SURVEYED BY: M.S.B.	SHEET NO:
DATE DRAWN: 10-01-10	DRAWN BY: E.M.S.	3
SCALE: 1" = 1000'	Date Last Revised:	3 OF 16

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-35H4BS	39°59'38.109"	109°30'40.437"	39°59'38.235"	109°30'37.965"	2124' FNL	39°59'38.594"	109°30'40.470"	39°59'38.720"	109°30'37.997"	2075' FNL
NBU 921-35H1CS	39°59'38.017"	109°30'40.399"	39°59'38.143"	109°30'37.926"	2133' FNL	39°59'41.874"	109°30'40.477"	39°59'42.000"	109°30'38.004"	1743' FNL
NBU 921-35H1BS	39°59'37.922"	109°30'40.356"	39°59'38.048"	109°30'37.883"	2143' FNL	39°59'45.154"	109°30'40.471"	39°59'45.280"	109°30'37.998"	1411' FNL
NBU 921-35H4CS	39°59'37.829"	109°30'40.313"	39°59'37.956"	109°30'37.841"	2152' FNL	39°59'35.314"	109°30'40.463"	39°59'35.440"	109°30'37.990"	2407' FNL
CIGE 239	39°59'38.485"	109°30'40.602"	39°59'38.611"	109°30'38.130"	2086' FNL	39°59'31.43"	109°30'40.463"	39°59'31.78"	109°30'37.990"	495' FEL

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-35H4BS	49.0'	-2.5'	NBU 921-35H1CS	390.4'	-5.9'	NBU 921-35H1BS	732.0'	-8.5'	NBU 921-35H4CS	-254.6'	-11.8'

BASIS OF BEARINGS IS THE EAST LINE OF THE NE $\frac{1}{4}$ OF SECTION 35, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°03'41"W.



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35H

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.



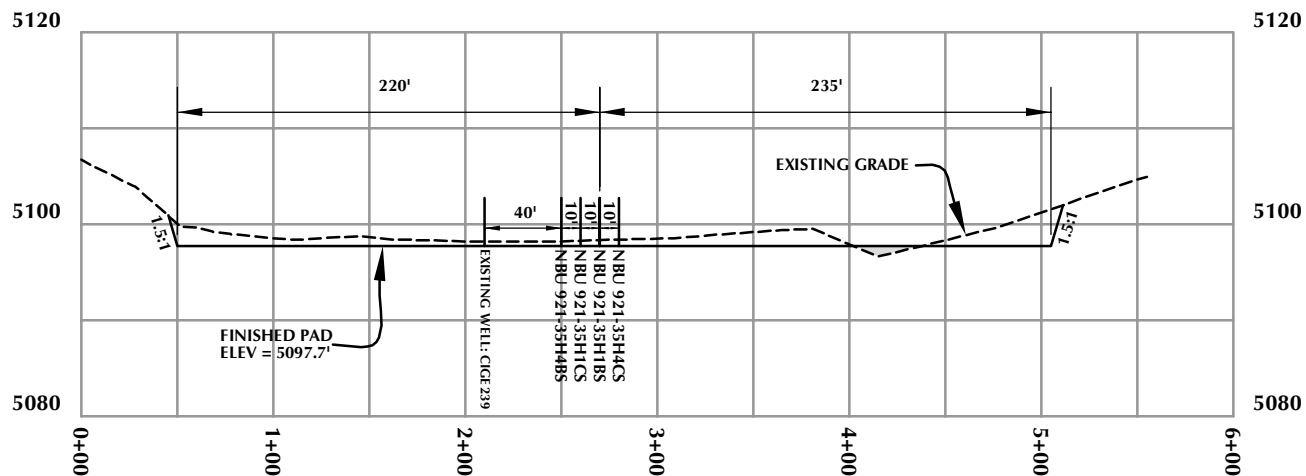
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

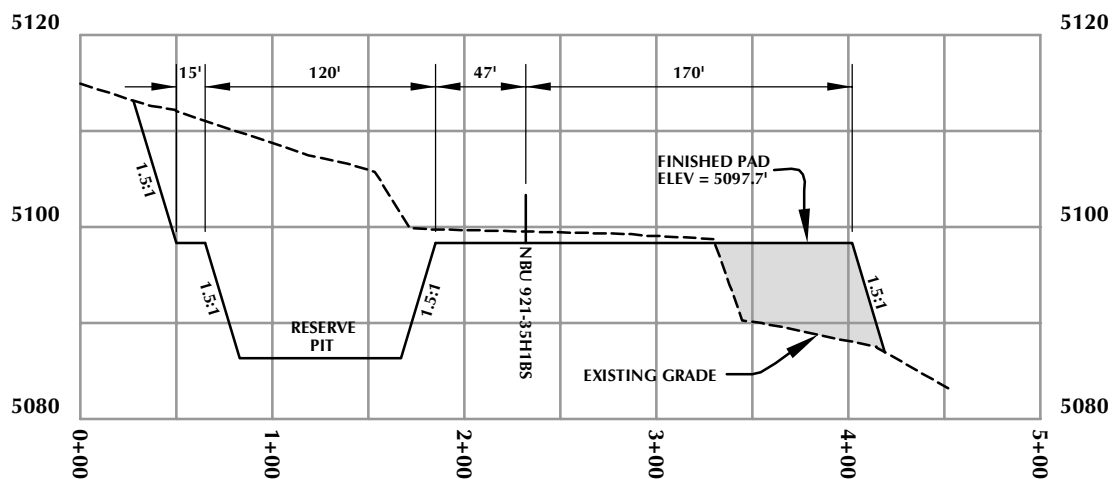
(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 9-30-10	SURVEYED BY: M.S.B.	SHEET NO: 5 5 OF 16
DATE DRAWN: 10-01-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised:	



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35H

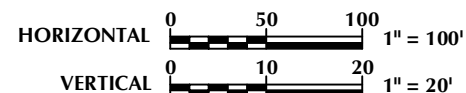
WELL PAD - CROSS SECTIONS
NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'

Date: 10/19/10

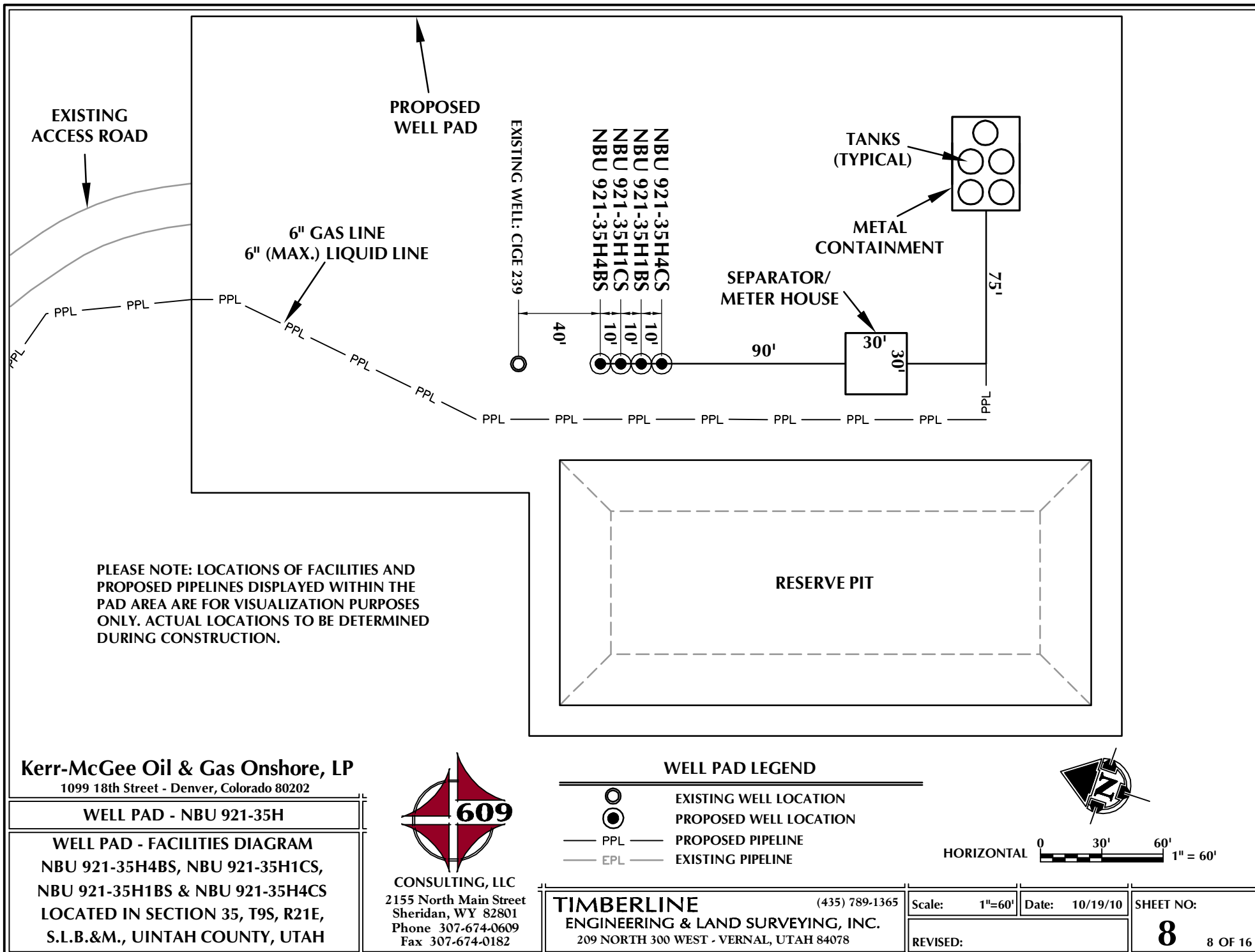
SHEET NO:

7

7 OF 16

REVISED:

'APIWELLNo:43047513650000'
K:\PROJECTS\2010\0004\NBU 921-35H_PAD.dwg, 10/19/2010 5:51:56 PM



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35H

WELL PAD - FACILITIES DIAGRAM
NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

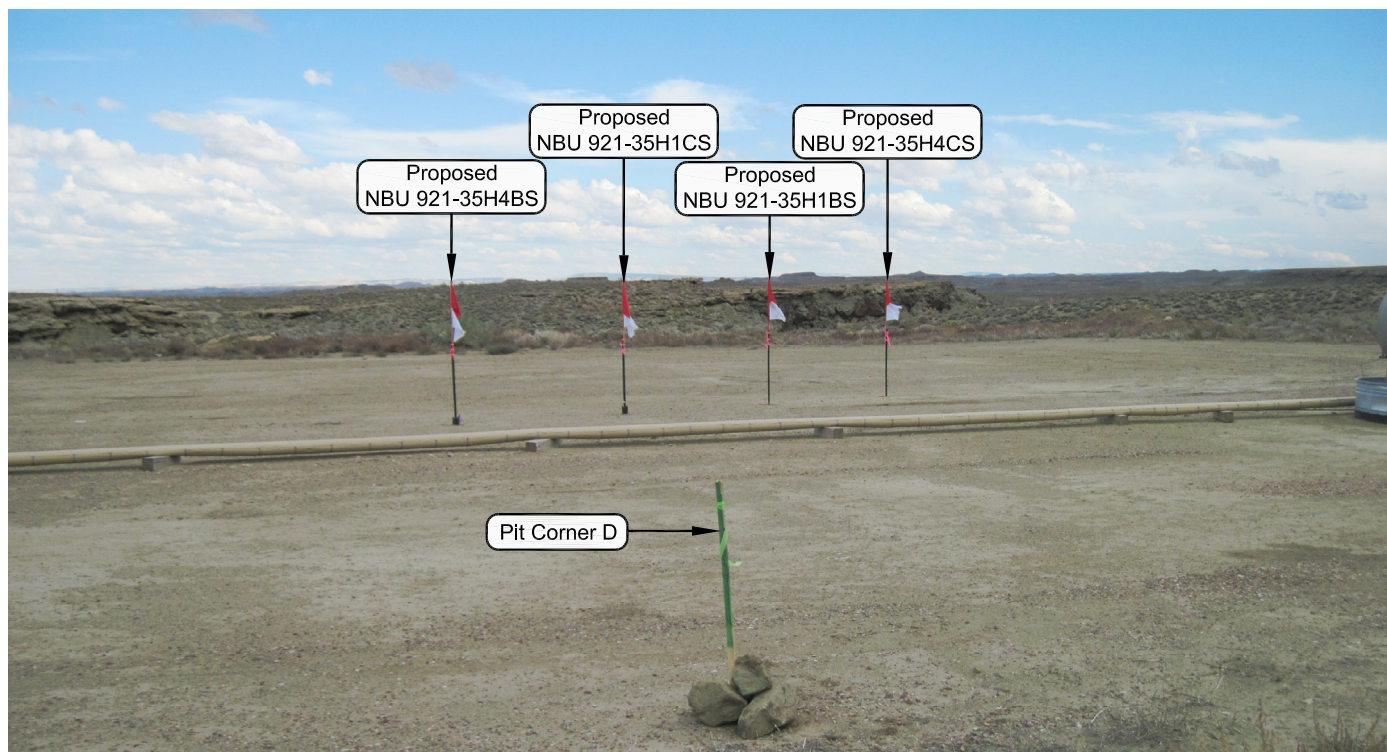


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35H

LOCATION PHOTOS

NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



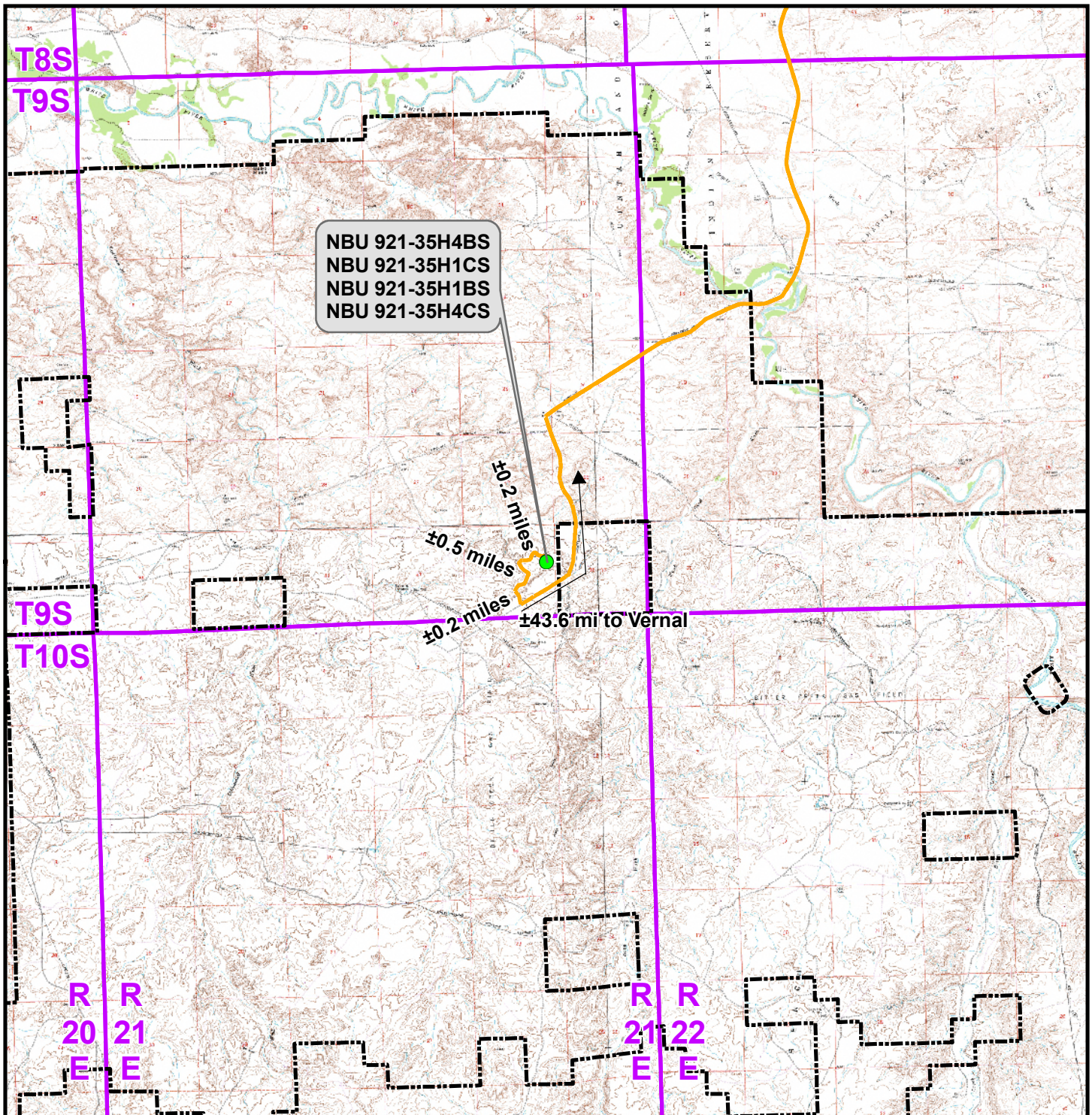
CONSULTING, LLC
2155 North Main Street
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Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 9-30-10	PHOTOS TAKEN BY: M.S.B.	9 SHEET NO: 9 OF 16
DATE DRAWN: 10-01-10	DRAWN BY: E.M.S.	
Date Last Revised:		



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 921-35H To Unit Boundary: ±483ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35H

TOPO A

NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



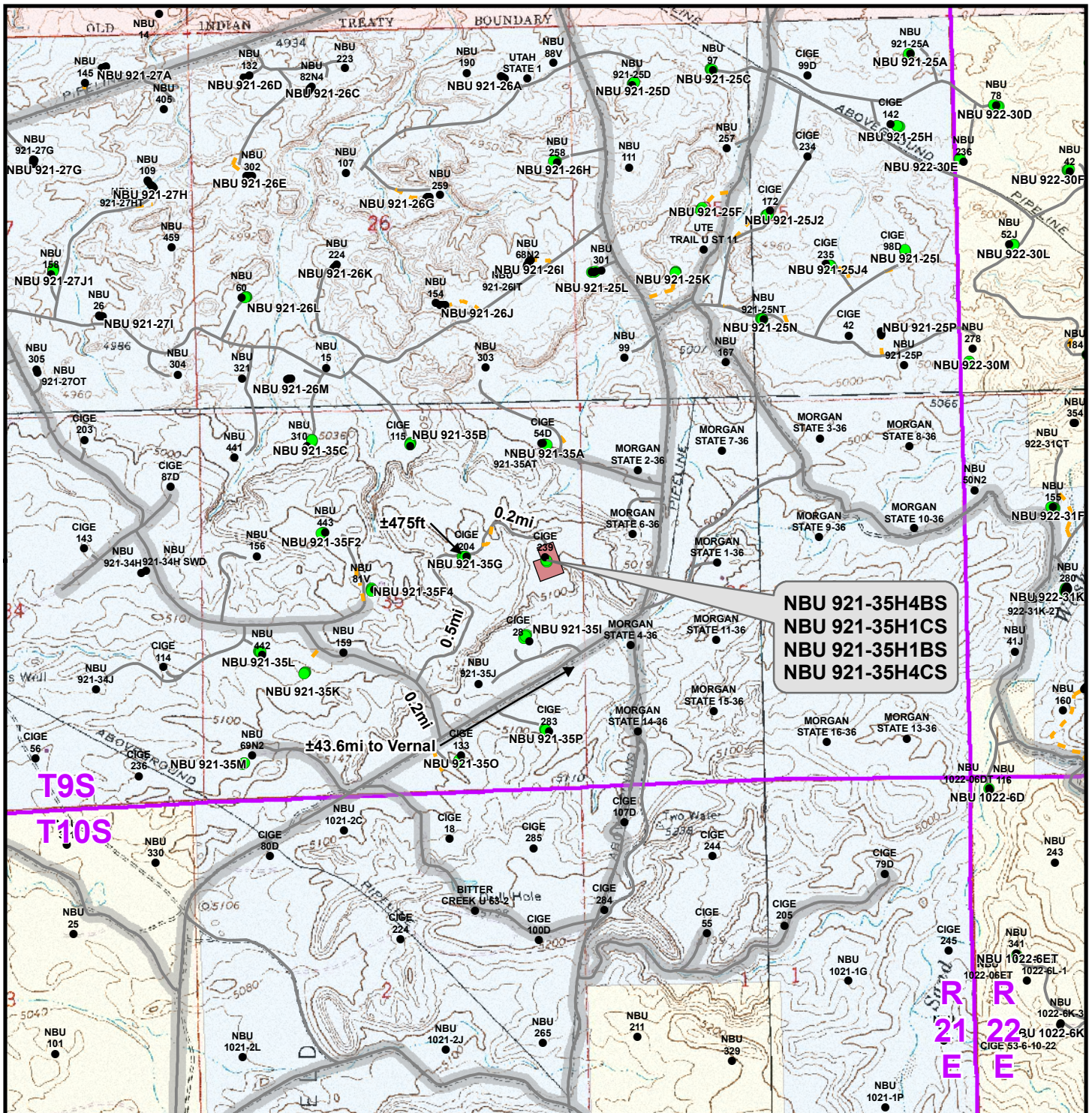
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: CPS	Date: 19 Oct 2010
Revised:	Date:

Sheet No:

10 10 of 16



Legend

- | | | | | | |
|-------------------|------------|---------------------|---------------|-----------------------------|-----------|
| ● Well - Proposed | ■ Well Pad | --- Road - Proposed | — County Road | ■ Bureau of Land Management | ■ State |
| ● Well - Existing | | — Road - Existing | | ■ Indian Reservation | ■ Private |

Total Proposed Road Re-Route Length: ±0ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35H

TOPO B

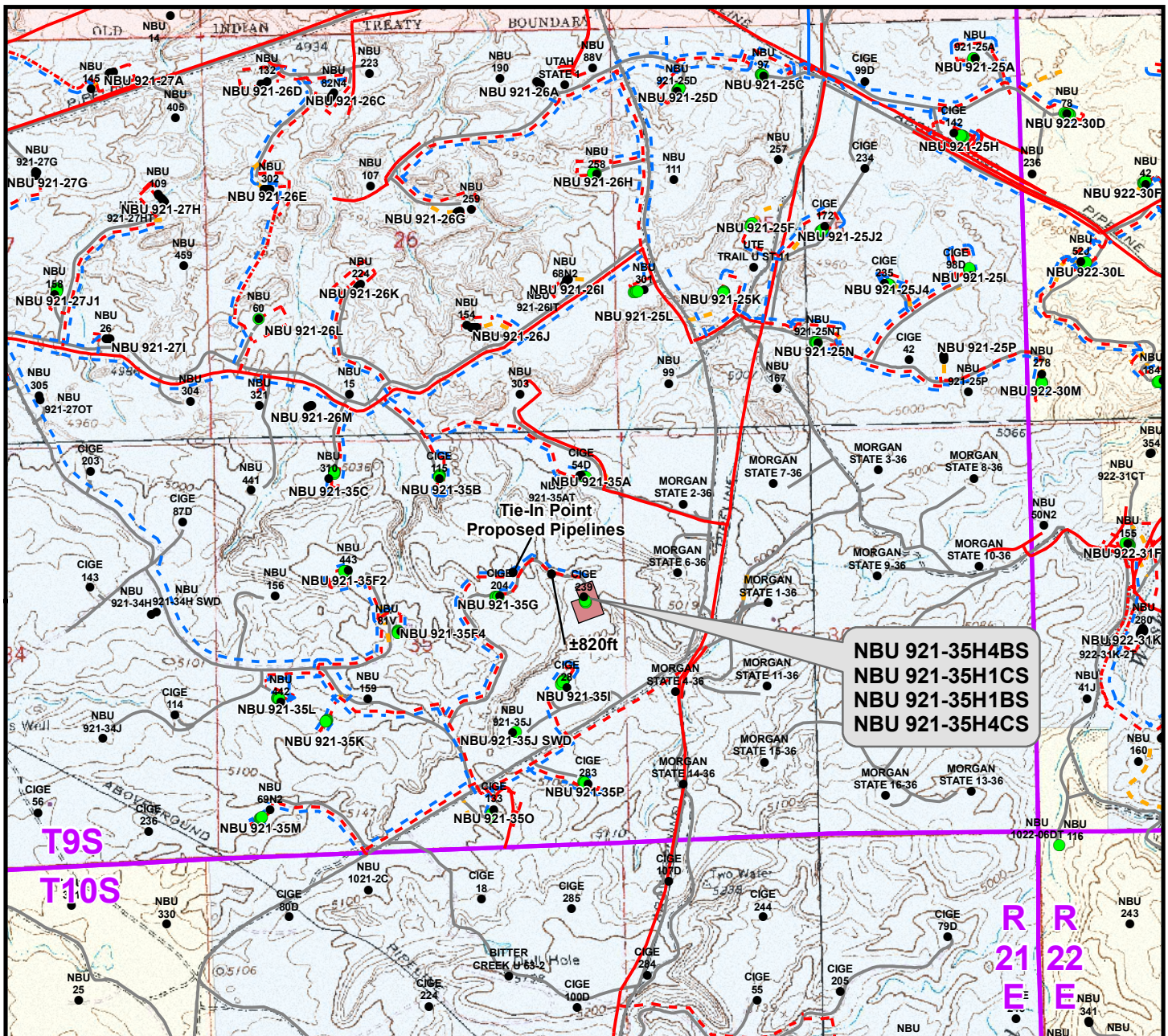
**NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH**



Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: CPS | Date: 19 Oct 2010
Revised: | Date:

Sheet No:
11
11 of 16

Sheet No:
12 12 of 16



**NBU 921-35H4BS
NBU 921-35H1CS
NBU 921-35H1BS
NBU 921-35H4CS**

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±490ft	Proposed 6" (Meter House to Edge of Pad)	±490ft
Proposed 6" (Max.) (Edge of Pad to 35G Intersection)	±820ft	Proposed 6" (Edge of Pad to 35G Intersection)	±820ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,310ft	TOTAL PROPOSED GAS PIPELINE =	±1,310ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - To Be Upgraded
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Proposed
- - - Liquid Pipeline - To Be Upgraded
- - - Liquid Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

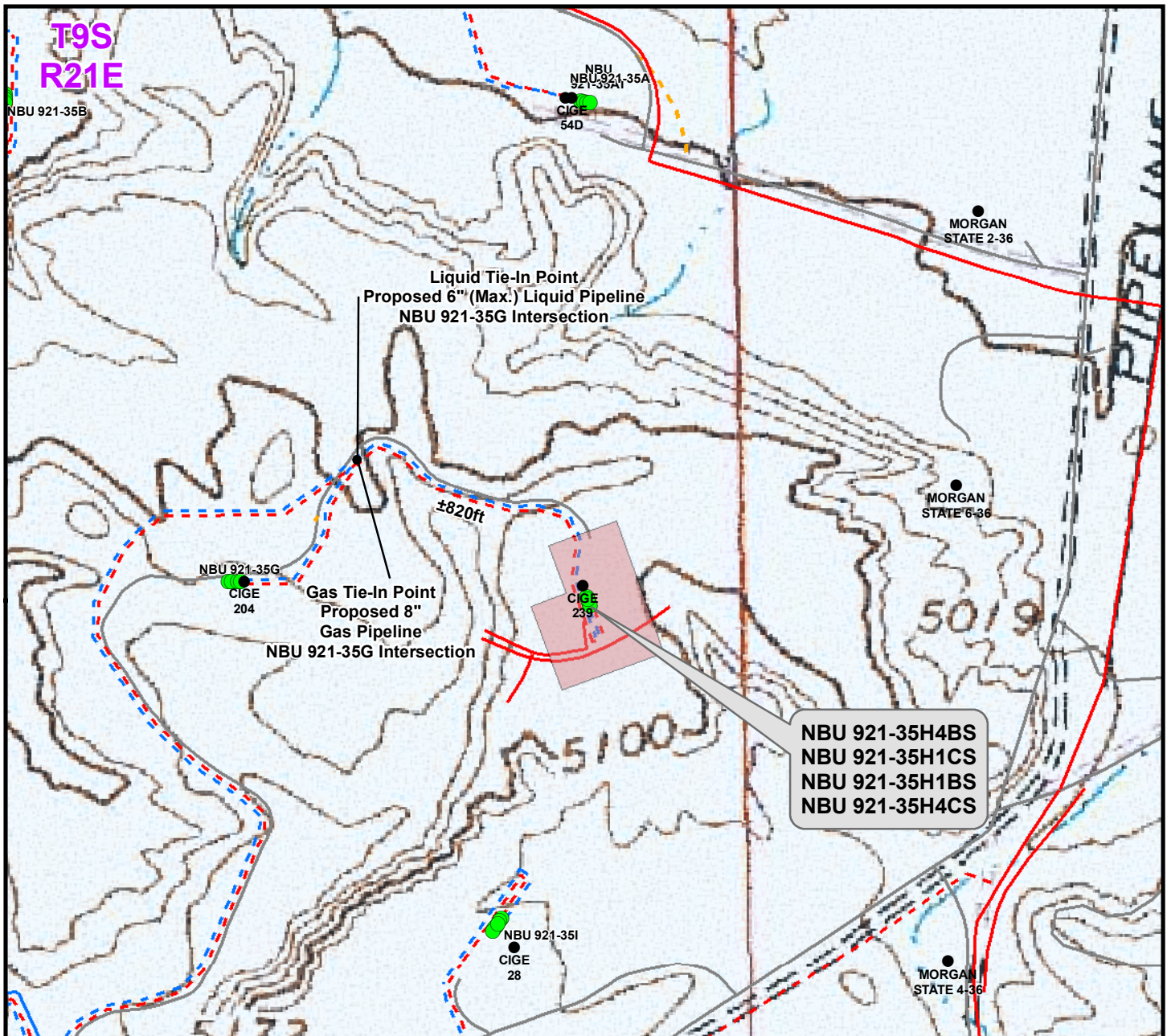
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35H

TOPO D
NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 19 Oct 2010	13
Revised: TL	Date: 9 Dec 2010	13 of 16



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±490ft
Proposed 6" (Max.) (Edge of Pad to 35G Intersection)	±820ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,310ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±490ft
Proposed 6" (Edge of Pad to 35G Intersection)	±820ft
TOTAL PROPOSED GAS PIPELINE =	±1,310ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35H

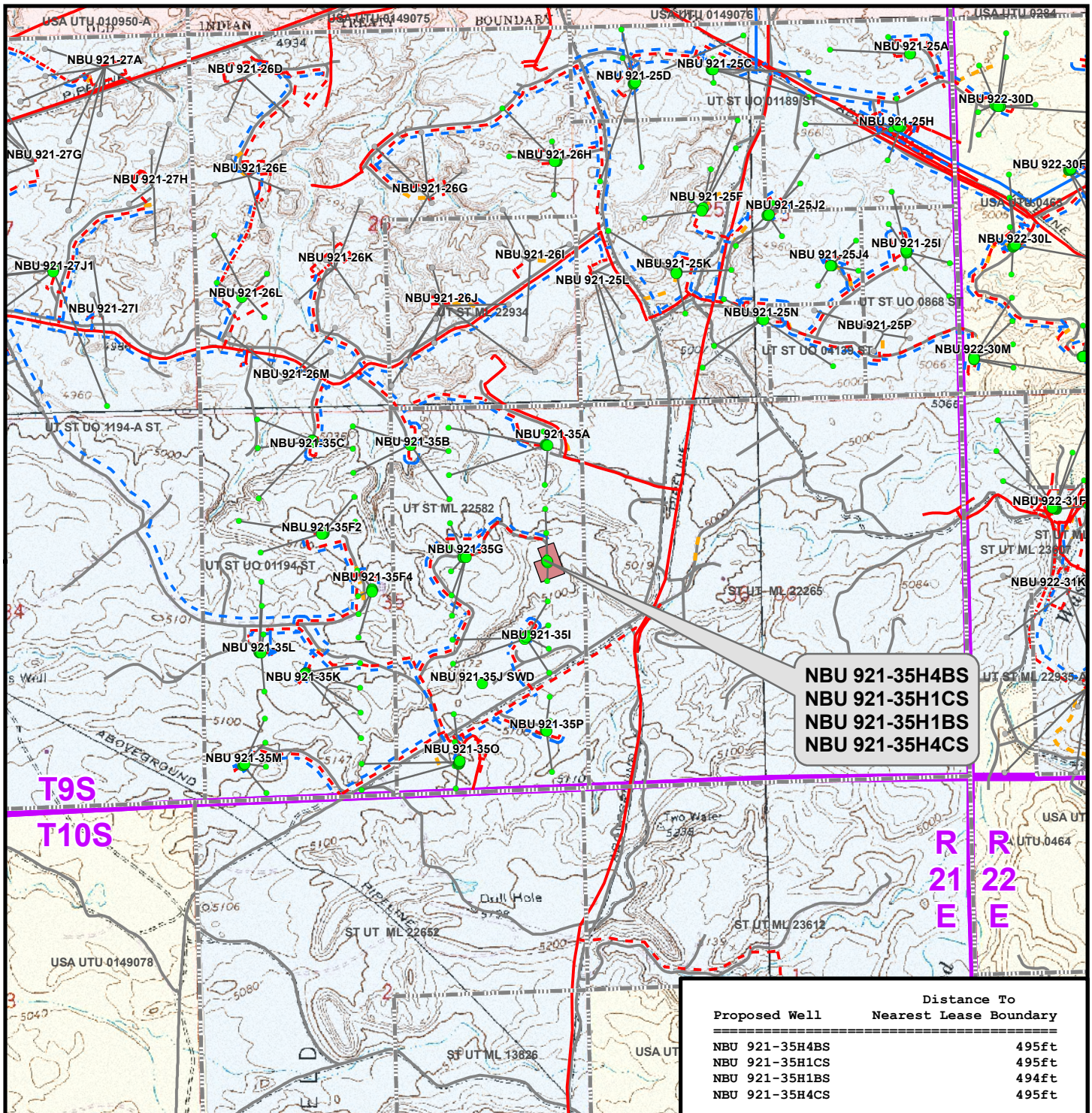
TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central
Drawn: CPS	Date: 19 Oct 2010
Revised: TL	Date: 9 Dec 2010

Sheet No:

14 14 of 16



Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35H

TOPO E

NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 19 Oct 2010	15
Revised: TL	Date: 9 Dec 2010	

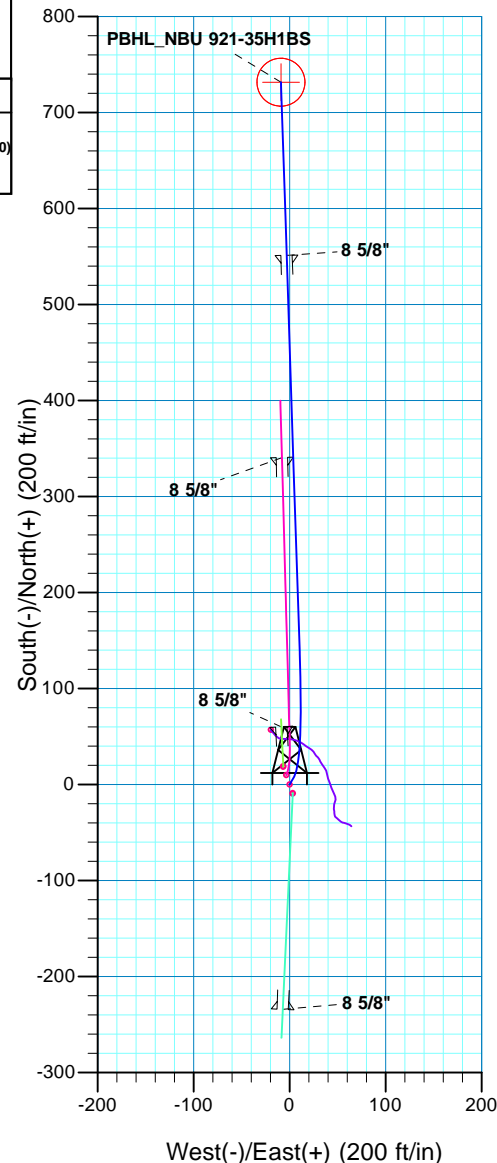
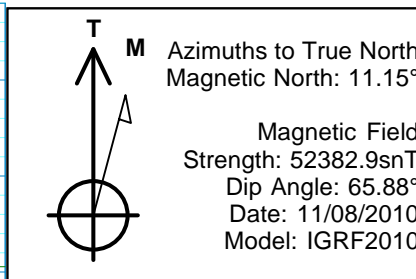
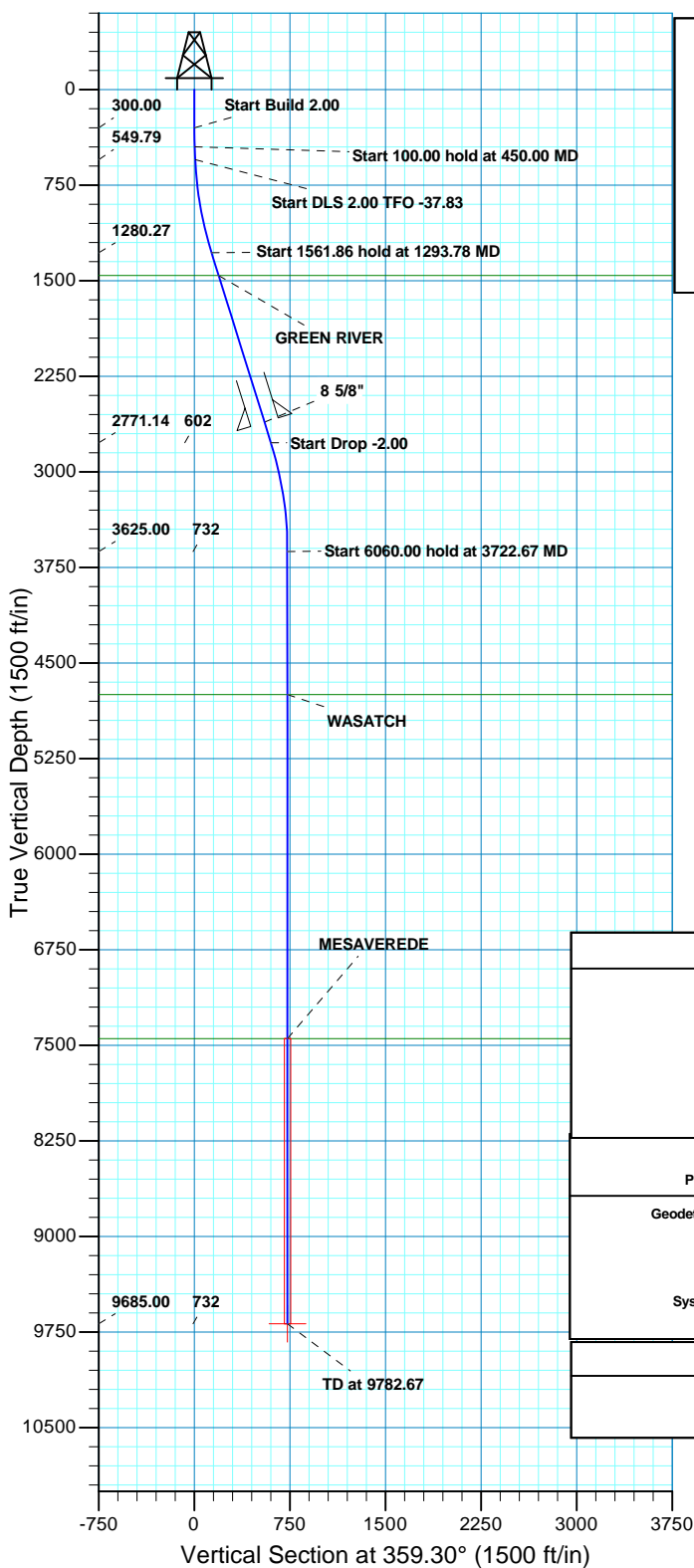
15 of 16

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35H
WELLS – NBU 921-35H4BS, NBU 921-35H1CS,
NBU 921-35H1BS & NBU 921-35H4CS
Section 35, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 20.1 miles to a Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the Class D County Road approximately 0.2 miles to a service road to the northeast. Exit right and proceed in a northeasterly direction along the service road approximately 0.5 miles to the proposed NBU 921-35G well pad. Continue in a northeasterly direction through the proposed NBU 921-35G well pad approximately 475 feet. Continue in a northeasterly then southeasterly direction approximately 0.2 miles along the service road to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 44.6 miles in a southerly direction.

WELL DETAILS: P_NBU 921-35H1BS							
GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)							
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
	0.00	0.00	14527309.48	2057602.45	39° 59' 38.047 N	109° 30' 37.883 W	
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL	9685.00	731.69	-8.96	14528040.92	2057581.26	39° 59' 45.280 N	109° 30' 37.998 W
- plan hits target center							
Shape							
Circle (Radius: 25.00)							



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	30.00	449.93	3.40	1.96	2.00	30.00	3.38	
550.00	3.00	30.00	549.79	7.93	4.58	0.00	0.00	7.88	
1293.78	17.34	358.11	1280.27	136.29	10.69	2.00	-37.83	136.15	
2855.64	17.34	358.11	2771.14	601.56	-4.67	0.00	0.00	601.57	
3722.67	0.00	0.00	3625.00	731.69	-8.96	2.00	180.00	731.75	
9782.67	0.00	0.00	9685.00	731.69	-8.96	0.00	0.00	731.75	PBHL_NBU 921-35H1BS
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N						FORMATION TOP DETAILS			
						TVDPath	MDPath	Formation	
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 35 T9S R21E System Datum: Mean Sea Level						1458.00	1479.97	GREEN RIVER	
						4748.00	4845.67	WASATCH	
						7448.00	7545.67	MESAVEREDE	
						CASING DETAILS			
						TVD	MD	Name	Size
						2610.00	2686.82	8 5/8"	8.625

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 921-35H PAD

P_NBU 921-35H1BS

P_NBU 921-35H1BS

Plan: PLAN #1 11-8-10 RHS

Standard Planning Report

09 November, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35H PAD, SECTION 35 T9S R21E		
Site Position:		Northing:	14,527,300.44 usft
From:	Lat/Long	Easting:	2,057,605.96 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39° 59' 37.957 N
		Longitude:	109° 30' 37.840 W
		Grid Convergence:	0.96 °

Well	P_NBU 921-35H1BS, 2143' FNL 486' FEL		
Well Position	+N/-S	9.11 ft	Northing:
	+E/-W	-3.36 ft	Easting:
Position Uncertainty	0.00 ft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	P_NBU 921-35H1BS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/08/2010	11.16	65.88	52,383

Design	PLAN #1 11-8-10 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.30

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	30.00	449.93	3.40	1.96	2.00	2.00	0.00	30.00	
550.00	3.00	30.00	549.79	7.93	4.58	0.00	0.00	0.00	0.00	
1,293.78	17.34	358.11	1,280.27	136.29	10.69	2.00	1.93	-4.29	-37.83	
2,855.64	17.34	358.11	2,771.14	601.56	-4.67	0.00	0.00	0.00	0.00	
3,722.67	0.00	0.00	3,625.00	731.69	-8.96	2.00	-2.00	0.00	180.00	
9,782.67	0.00	0.00	9,685.00	731.69	-8.96	0.00	0.00	0.00	0.00	PBHL_NBU 921-35H

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	30.00	399.98	1.51	0.87	1.50	2.00	2.00	0.00	
450.00	3.00	30.00	449.93	3.40	1.96	3.38	2.00	2.00	0.00	
Start 100.00 hold at 450.00 MD										
500.00	3.00	30.00	499.86	5.67	3.27	5.63	0.00	0.00	0.00	
550.00	3.00	30.00	549.79	7.93	4.58	7.88	0.00	0.00	0.00	
Start DLS 2.00 TFO -37.83										
600.00	3.84	20.80	599.71	10.63	5.83	10.56	2.00	1.68	-18.40	
700.00	5.68	11.06	699.36	18.61	7.97	18.51	2.00	1.84	-9.74	
800.00	7.60	6.14	798.68	30.04	9.62	29.92	2.00	1.92	-4.92	
900.00	9.55	3.21	897.56	44.89	10.79	44.76	2.00	1.95	-2.93	
1,000.00	11.52	1.28	995.87	63.15	11.48	63.01	2.00	1.97	-1.94	
1,100.00	13.49	359.90	1,093.50	84.80	11.68	84.65	2.00	1.98	-1.38	
1,200.00	15.48	358.87	1,190.31	109.81	11.40	109.66	2.00	1.98	-1.03	
1,293.78	17.34	358.11	1,280.27	136.29	10.69	136.15	2.00	1.99	-0.81	
Start 1561.86 hold at 1293.78 MD										
1,300.00	17.34	358.11	1,286.21	138.15	10.63	138.00	0.00	0.00	0.00	
1,400.00	17.34	358.11	1,381.66	167.93	9.64	167.80	0.00	0.00	0.00	
1,479.97	17.34	358.11	1,458.00	191.76	8.86	191.63	0.00	0.00	0.00	
GREEN RIVER										
1,500.00	17.34	358.11	1,477.12	197.72	8.66	197.60	0.00	0.00	0.00	
1,600.00	17.34	358.11	1,572.57	227.51	7.68	227.40	0.00	0.00	0.00	
1,700.00	17.34	358.11	1,668.03	257.30	6.69	257.20	0.00	0.00	0.00	
1,800.00	17.34	358.11	1,763.48	287.09	5.71	287.00	0.00	0.00	0.00	
1,900.00	17.34	358.11	1,858.94	316.88	4.73	316.80	0.00	0.00	0.00	
2,000.00	17.34	358.11	1,954.39	346.67	3.75	346.60	0.00	0.00	0.00	
2,100.00	17.34	358.11	2,049.85	376.46	2.76	376.40	0.00	0.00	0.00	
2,200.00	17.34	358.11	2,145.30	406.25	1.78	406.19	0.00	0.00	0.00	
2,300.00	17.34	358.11	2,240.76	436.04	0.80	435.99	0.00	0.00	0.00	
2,400.00	17.34	358.11	2,336.21	465.83	-0.19	465.79	0.00	0.00	0.00	
2,500.00	17.34	358.11	2,431.67	495.61	-1.17	495.59	0.00	0.00	0.00	
2,600.00	17.34	358.11	2,527.12	525.40	-2.15	525.39	0.00	0.00	0.00	
2,686.82	17.34	358.11	2,610.00	551.27	-3.01	551.26	0.00	0.00	0.00	
8 5/8"										
2,700.00	17.34	358.11	2,622.58	555.19	-3.14	555.19	0.00	0.00	0.00	
2,800.00	17.34	358.11	2,718.03	584.98	-4.12	584.99	0.00	0.00	0.00	
2,855.64	17.34	358.11	2,771.14	601.56	-4.67	601.57	0.00	0.00	0.00	
Start Drop -2.00										
2,900.00	16.45	358.11	2,813.59	614.44	-5.09	614.46	2.00	-2.00	0.00	
3,000.00	14.45	358.11	2,909.97	641.07	-5.97	641.10	2.00	-2.00	0.00	
3,100.00	12.45	358.11	3,007.22	664.32	-6.74	664.36	2.00	-2.00	0.00	
3,200.00	10.45	358.11	3,105.22	684.17	-7.40	684.21	2.00	-2.00	0.00	
3,300.00	8.45	358.11	3,203.86	700.58	-7.94	700.63	2.00	-2.00	0.00	
3,400.00	6.45	358.11	3,303.01	713.55	-8.36	713.60	2.00	-2.00	0.00	
3,500.00	4.45	358.11	3,402.55	723.05	-8.68	723.10	2.00	-2.00	0.00	
3,600.00	2.45	358.11	3,502.36	729.07	-8.88	729.12	2.00	-2.00	0.00	
3,700.00	0.45	358.11	3,602.33	731.60	-8.96	731.66	2.00	-2.00	0.00	
3,722.67	0.00	0.00	3,625.00	731.69	-8.96	731.75	2.00	-2.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start 6060.00 hold at 3722.67 MD									
3,800.00	0.00	0.00	3,702.33	731.69	-8.96	731.75	0.00	0.00	0.00
3,900.00	0.00	0.00	3,802.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,000.00	0.00	0.00	3,902.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,100.00	0.00	0.00	4,002.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,200.00	0.00	0.00	4,102.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,300.00	0.00	0.00	4,202.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,400.00	0.00	0.00	4,302.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,500.00	0.00	0.00	4,402.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,600.00	0.00	0.00	4,502.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,700.00	0.00	0.00	4,602.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,800.00	0.00	0.00	4,702.33	731.69	-8.96	731.75	0.00	0.00	0.00
4,845.67	0.00	0.00	4,748.00	731.69	-8.96	731.75	0.00	0.00	0.00
WASATCH									
4,900.00	0.00	0.00	4,802.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,000.00	0.00	0.00	4,902.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,100.00	0.00	0.00	5,002.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,200.00	0.00	0.00	5,102.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,300.00	0.00	0.00	5,202.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,400.00	0.00	0.00	5,302.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,500.00	0.00	0.00	5,402.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,600.00	0.00	0.00	5,502.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,700.00	0.00	0.00	5,602.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,800.00	0.00	0.00	5,702.33	731.69	-8.96	731.75	0.00	0.00	0.00
5,900.00	0.00	0.00	5,802.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,000.00	0.00	0.00	5,902.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,100.00	0.00	0.00	6,002.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,200.00	0.00	0.00	6,102.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,300.00	0.00	0.00	6,202.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,400.00	0.00	0.00	6,302.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,500.00	0.00	0.00	6,402.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,600.00	0.00	0.00	6,502.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,700.00	0.00	0.00	6,602.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,800.00	0.00	0.00	6,702.33	731.69	-8.96	731.75	0.00	0.00	0.00
6,900.00	0.00	0.00	6,802.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,000.00	0.00	0.00	6,902.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,100.00	0.00	0.00	7,002.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,200.00	0.00	0.00	7,102.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,300.00	0.00	0.00	7,202.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,400.00	0.00	0.00	7,302.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,500.00	0.00	0.00	7,402.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,545.67	0.00	0.00	7,448.00	731.69	-8.96	731.75	0.00	0.00	0.00
MESAVEREDE									
7,600.00	0.00	0.00	7,502.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,700.00	0.00	0.00	7,602.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,800.00	0.00	0.00	7,702.33	731.69	-8.96	731.75	0.00	0.00	0.00
7,900.00	0.00	0.00	7,802.33	731.69	-8.96	731.75	0.00	0.00	0.00
8,000.00	0.00	0.00	7,902.33	731.69	-8.96	731.75	0.00	0.00	0.00
8,100.00	0.00	0.00	8,002.33	731.69	-8.96	731.75	0.00	0.00	0.00
8,200.00	0.00	0.00	8,102.33	731.69	-8.96	731.75	0.00	0.00	0.00
8,300.00	0.00	0.00	8,202.33	731.69	-8.96	731.75	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,400.00	0.00	0.00	8,302.33	731.69	-8.96	731.75	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,402.33	731.69	-8.96	731.75	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,502.33	731.69	-8.96	731.75	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,602.33	731.69	-8.96	731.75	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,702.33	731.69	-8.96	731.75	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,802.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,902.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,002.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,102.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,202.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,302.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,402.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,502.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,602.33	731.69	-8.96	731.75	0.00	0.00	0.00	
9,782.67	0.00	0.00	9,685.00	731.69	-8.96	731.75	0.00	0.00	0.00	
TD at 9782.67 - PBHL_NBU 921-35H1BS										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL_NBU 921-35H1B: - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,685.00	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,686.82	2,610.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,479.97	1,458.00	GREEN RIVER				
4,845.67	4,748.00	WASATCH				
7,545.67	7,448.00	MESAVEREDE				

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 921-35H PAD

P_NBU 921-35H1BS

P_NBU 921-35H1BS

Plan: PLAN #1 11-8-10 RHS

Standard Planning Report - Geographic

09 November, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35H PAD, SECTION 35 T9S R21E		
Site Position:		Northing:	14,527,300.44 usft
From:	Lat/Long	Easting:	2,057,605.96 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39° 59' 37.957 N
		Longitude:	109° 30' 37.840 W
		Grid Convergence:	0.96 °

Well	P_NBU 921-35H1BS, 2143' FNL 486' FEL		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	P_NBU 921-35H1BS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/08/2010	11.16	65.88	52,383

Design	PLAN #1 11-8-10 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.30

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	30.00	449.93	3.40	1.96	2.00	2.00	0.00	30.00	
550.00	3.00	30.00	549.79	7.93	4.58	0.00	0.00	0.00	0.00	
1,293.78	17.34	358.11	1,280.27	136.29	10.69	2.00	1.93	-4.29	-37.83	
2,855.64	17.34	358.11	2,771.14	601.56	-4.67	0.00	0.00	0.00	0.00	
3,722.67	0.00	0.00	3,625.00	731.69	-8.96	2.00	-2.00	0.00	180.00	
9,782.67	0.00	0.00	9,685.00	731.69	-8.96	0.00	0.00	0.00	0.00	PBHL_NBU 921-35H'

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,527,309.48	2,057,602.44	39° 59' 38.047 N	109° 30' 37.883 W
100.00	0.00	0.00	100.00	0.00	0.00	14,527,309.48	2,057,602.44	39° 59' 38.047 N	109° 30' 37.883 W
200.00	0.00	0.00	200.00	0.00	0.00	14,527,309.48	2,057,602.44	39° 59' 38.047 N	109° 30' 37.883 W
300.00	0.00	0.00	300.00	0.00	0.00	14,527,309.48	2,057,602.44	39° 59' 38.047 N	109° 30' 37.883 W
Start Build 2.00									
400.00	2.00	30.00	399.98	1.51	0.87	14,527,311.01	2,057,603.29	39° 59' 38.062 N	109° 30' 37.872 W
450.00	3.00	30.00	449.93	3.40	1.96	14,527,312.92	2,057,604.35	39° 59' 38.081 N	109° 30' 37.858 W
Start 100.00 hold at 450.00 MD									
500.00	3.00	30.00	499.86	5.67	3.27	14,527,315.20	2,057,605.62	39° 59' 38.103 N	109° 30' 37.841 W
550.00	3.00	30.00	549.79	7.93	4.58	14,527,317.49	2,057,606.89	39° 59' 38.126 N	109° 30' 37.824 W
Start DLS 2.00 TFO -37.83									
600.00	3.84	20.80	599.71	10.63	5.83	14,527,320.21	2,057,608.09	39° 59' 38.152 N	109° 30' 37.808 W
700.00	5.68	11.06	699.36	18.61	7.97	14,527,328.23	2,057,610.10	39° 59' 38.231 N	109° 30' 37.780 W
800.00	7.60	6.14	798.68	30.04	9.62	14,527,339.68	2,057,611.56	39° 59' 38.344 N	109° 30' 37.759 W
900.00	9.55	3.21	897.56	44.89	10.79	14,527,354.55	2,057,612.49	39° 59' 38.491 N	109° 30' 37.744 W
1,000.00	11.52	1.28	995.87	63.15	11.48	14,527,372.82	2,057,612.87	39° 59' 38.671 N	109° 30' 37.735 W
1,100.00	13.49	359.90	1,093.50	84.80	11.68	14,527,394.47	2,057,612.71	39° 59' 38.885 N	109° 30' 37.733 W
1,200.00	15.48	358.87	1,190.31	109.81	11.40	14,527,419.47	2,057,612.00	39° 59' 39.133 N	109° 30' 37.736 W
1,293.78	17.34	358.11	1,280.27	136.29	10.69	14,527,445.94	2,057,610.85	39° 59' 39.394 N	109° 30' 37.745 W
Start 1561.86 hold at 1293.78 MD									
1,300.00	17.34	358.11	1,286.21	138.15	10.63	14,527,447.79	2,057,610.76	39° 59' 39.413 N	109° 30' 37.746 W
1,400.00	17.34	358.11	1,381.66	167.93	9.64	14,527,477.56	2,057,609.28	39° 59' 39.707 N	109° 30' 37.759 W
1,479.97	17.34	358.11	1,458.00	191.76	8.86	14,527,501.36	2,057,608.10	39° 59' 39.943 N	109° 30' 37.769 W
GREEN RIVER									
1,500.00	17.34	358.11	1,477.12	197.72	8.66	14,527,507.32	2,057,607.80	39° 59' 40.002 N	109° 30' 37.771 W
1,600.00	17.34	358.11	1,572.57	227.51	7.68	14,527,537.09	2,057,606.32	39° 59' 40.296 N	109° 30' 37.784 W
1,700.00	17.34	358.11	1,668.03	257.30	6.69	14,527,566.86	2,057,604.84	39° 59' 40.590 N	109° 30' 37.797 W
1,800.00	17.34	358.11	1,763.48	287.09	5.71	14,527,596.63	2,057,603.36	39° 59' 40.885 N	109° 30' 37.809 W
1,900.00	17.34	358.11	1,858.94	316.88	4.73	14,527,626.40	2,057,601.88	39° 59' 41.179 N	109° 30' 37.822 W
2,000.00	17.34	358.11	1,954.39	346.67	3.75	14,527,656.17	2,057,600.39	39° 59' 41.474 N	109° 30' 37.835 W
2,100.00	17.34	358.11	2,049.85	376.46	2.76	14,527,685.94	2,057,598.91	39° 59' 41.768 N	109° 30' 37.847 W
2,200.00	17.34	358.11	2,145.30	406.25	1.78	14,527,715.70	2,057,597.43	39° 59' 42.063 N	109° 30' 37.860 W
2,300.00	17.34	358.11	2,240.76	436.04	0.80	14,527,745.47	2,057,595.95	39° 59' 42.357 N	109° 30' 37.873 W
2,400.00	17.34	358.11	2,336.21	465.83	-0.19	14,527,775.24	2,057,594.47	39° 59' 42.652 N	109° 30' 37.885 W
2,500.00	17.34	358.11	2,431.67	495.61	-1.17	14,527,805.01	2,057,592.99	39° 59' 42.946 N	109° 30' 37.898 W
2,600.00	17.34	358.11	2,527.12	525.40	-2.15	14,527,834.78	2,057,591.51	39° 59' 43.241 N	109° 30' 37.910 W
2,686.82	17.34	358.11	2,610.00	551.27	-3.01	14,527,860.62	2,057,590.22	39° 59' 43.496 N	109° 30' 37.921 W
8 5/8"									
2,700.00	17.34	358.11	2,622.58	555.19	-3.14	14,527,864.55	2,057,590.03	39° 59' 43.535 N	109° 30' 37.923 W
2,800.00	17.34	358.11	2,718.03	584.98	-4.12	14,527,894.31	2,057,588.55	39° 59' 43.829 N	109° 30' 37.936 W
2,855.64	17.34	358.11	2,771.14	601.56	-4.67	14,527,910.88	2,057,587.72	39° 59' 43.993 N	109° 30' 37.943 W
Start Drop -2.00									
2,900.00	16.45	358.11	2,813.59	614.44	-5.09	14,527,923.75	2,057,587.08	39° 59' 44.121 N	109° 30' 37.948 W
3,000.00	14.45	358.11	2,909.97	641.07	-5.97	14,527,950.37	2,057,585.76	39° 59' 44.384 N	109° 30' 37.960 W
3,100.00	12.45	358.11	3,007.22	664.32	-6.74	14,527,973.60	2,057,584.60	39° 59' 44.614 N	109° 30' 37.969 W
3,200.00	10.45	358.11	3,105.22	684.17	-7.40	14,527,993.43	2,057,583.62	39° 59' 44.810 N	109° 30' 37.978 W
3,300.00	8.45	358.11	3,203.86	700.58	-7.94	14,528,009.84	2,057,582.80	39° 59' 44.972 N	109° 30' 37.985 W
3,400.00	6.45	358.11	3,303.01	713.55	-8.36	14,528,022.79	2,057,582.16	39° 59' 45.100 N	109° 30' 37.990 W
3,500.00	4.45	358.11	3,402.55	723.05	-8.68	14,528,032.28	2,057,581.68	39° 59' 45.194 N	109° 30' 37.994 W
3,600.00	2.45	358.11	3,502.36	729.07	-8.88	14,528,038.30	2,057,581.38	39° 59' 45.254 N	109° 30' 37.997 W
3,700.00	0.45	358.11	3,602.33	731.60	-8.96	14,528,040.83	2,057,581.26	39° 59' 45.279 N	109° 30' 37.998 W

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,722.67	0.00	0.00	3,625.00	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
Start 6060.00 hold at 3722.67 MD									
3,800.00	0.00	0.00	3,702.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
3,900.00	0.00	0.00	3,802.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,000.00	0.00	0.00	3,902.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,100.00	0.00	0.00	4,002.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,200.00	0.00	0.00	4,102.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,300.00	0.00	0.00	4,202.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,400.00	0.00	0.00	4,302.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,500.00	0.00	0.00	4,402.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,600.00	0.00	0.00	4,502.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,700.00	0.00	0.00	4,602.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,800.00	0.00	0.00	4,702.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
4,845.67	0.00	0.00	4,748.00	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
WASATCH									
4,900.00	0.00	0.00	4,802.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,000.00	0.00	0.00	4,902.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,100.00	0.00	0.00	5,002.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,200.00	0.00	0.00	5,102.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,300.00	0.00	0.00	5,202.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,400.00	0.00	0.00	5,302.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,500.00	0.00	0.00	5,402.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,600.00	0.00	0.00	5,502.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,700.00	0.00	0.00	5,602.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,800.00	0.00	0.00	5,702.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
5,900.00	0.00	0.00	5,802.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,000.00	0.00	0.00	5,902.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,100.00	0.00	0.00	6,002.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,200.00	0.00	0.00	6,102.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,300.00	0.00	0.00	6,202.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,400.00	0.00	0.00	6,302.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,500.00	0.00	0.00	6,402.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,600.00	0.00	0.00	6,502.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,700.00	0.00	0.00	6,602.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,800.00	0.00	0.00	6,702.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
6,900.00	0.00	0.00	6,802.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,000.00	0.00	0.00	6,902.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,100.00	0.00	0.00	7,002.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,200.00	0.00	0.00	7,102.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,300.00	0.00	0.00	7,202.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,400.00	0.00	0.00	7,302.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,500.00	0.00	0.00	7,402.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,545.67	0.00	0.00	7,448.00	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
MESAVEREDE									
7,600.00	0.00	0.00	7,502.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,700.00	0.00	0.00	7,602.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,800.00	0.00	0.00	7,702.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
7,900.00	0.00	0.00	7,802.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,000.00	0.00	0.00	7,902.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,100.00	0.00	0.00	8,002.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,200.00	0.00	0.00	8,102.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,300.00	0.00	0.00	8,202.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,400.00	0.00	0.00	8,302.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,500.00	0.00	0.00	8,402.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,600.00	0.00	0.00	8,502.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,700.00	0.00	0.00	8,602.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,800.00	0.00	0.00	8,702.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
8,900.00	0.00	0.00	8,802.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,000.00	0.00	0.00	8,902.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,100.00	0.00	0.00	9,002.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,200.00	0.00	0.00	9,102.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,300.00	0.00	0.00	9,202.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,400.00	0.00	0.00	9,302.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,500.00	0.00	0.00	9,402.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,600.00	0.00	0.00	9,502.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,700.00	0.00	0.00	9,602.33	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
9,782.67	0.00	0.00	9,685.00	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W
TD at 9782.67 - PBHL_NBU 921-35H1BS									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 921-35H1B: - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,685.00	731.69	-8.96	14,528,040.92	2,057,581.25	39° 59' 45.280 N	109° 30' 37.998 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,686.82	2,610.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,479.97	1,458.00	GREEN RIVER			
4,845.67	4,748.00	WASATCH			
7,545.67	7,448.00	MESAVEREDE			

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
450.00	449.93	3.40	1.96	Start 100.00 hold at 450.00 MD
550.00	549.79	7.93	4.58	Start DLS 2.00 TFO -37.83
1,293.78	1,280.27	136.29	10.69	Start 1561.86 hold at 1293.78 MD
2,855.64	2,771.14	601.56	-4.67	Start Drop -2.00
3,722.67	3,625.00	731.69	-8.96	Start 6060.00 hold at 3722.67 MD
9,782.67	9,685.00	731.69	-8.96	TD at 9782.67

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35H1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5098' & RKB 14' @ 5112.00ft (ASSUMED)
Site:	NBU 921-35H PAD	North Reference:	True
Well:	P_NBU 921-35H1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35H1BS		
Design:	PLAN #1 11-8-10 RHS		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
450.00	449.93	3.40	1.96	Start 100.00 hold at 450.00 MD
550.00	549.79	7.93	4.58	Start DLS 2.00 TFO -37.83
1,293.78	1,280.27	136.29	10.69	Start 1561.86 hold at 1293.78 MD
2,855.64	2,771.14	601.56	-4.67	Start Drop -2.00
3,722.67	3,625.00	731.69	-8.96	Start 6060.00 hold at 3722.67 MD
9,782.67	9,685.00	731.69	-8.96	TD at 9782.67

NBU 921-35H1BS

Surface: 2,143' FNL 486' FEL (SE/4NE/4)

BHL: 1,411' FNL 494' FEL (SE/4NE/4)

NBU 921-35H1CS

Surface: 2,133' FNL 490' FEL (SE/4NE/4)

BHL: 1,743' FNL 495' FEL (SE/4NE/4)

NBU 921-35H4BS

Surface: 2,124' FNL 493' FEL (SE/4NE/4)

BHL: 2,075' FNL 495' FEL (SE/4NE/4)

NBU 921-35H4CS

Surface: 2,152' FNL 483' FEL (SE/4NE/4)

BHL: 2,407' FNL 495' FEL (SE/4NE/4)

Pad: NBU 921-35H

Section 35 T9S R21E

Mineral Lease: ML 22582

Uintah County, Utah

Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each

other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 239. This well location is a producing vertical well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of November 11, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,610'$ and the individual segments are broken up as follows:

$\pm 490'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.

$\pm 1,120'$ (0.2 miles) –New 6" buried gas pipeline from the edge of pad to the NBU 921-35G pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,610'$ and the individual segments are broken up as follows:

- $\pm 490'$ (0.1 miles) –New 6” buried liquid pipeline from the separator to the edge of the pad.
- $\pm 1,120'$ (0.2 miles) –New 6” buried liquid pipeline from the edge of pad to the NBU 921-35G pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

- RNI in Sec. 5 T9S R22E
- Ace Oilfield in Sec. 2 T6S R20E
- MC&MC in Sec. 12 T6S R19E
- Pipeline Facility in Sec. 36 T9S R20E
- Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
- Bonanza Evaporation Pond in Sec. 2 T10S R23E
- Ouray #1 SWD in Sec. 1 T9S R21E
- NBU 159 SWD in Sec. 35 T9S R21E
- CIGE 112D SWD in Sec. 19 T9S R21E
- CIGE 114 SWD in Sec. 34 T9S R21E
- NBU 921-34K SWD in Sec. 34 T9S R21E
- NBU 921-33F SWD in Sec. 33 T9S R21E
- NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, The liner

will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-

vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA

675 East 500 South, Suite 500

Salt Lake City, UT 84102

K. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724


Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

November 19, 2010
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

October 27, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-35H1BS
T9S-R21E
Section 35: SENE (Surf), SENE (Bottom)
Surface: 2143' FNL, 486' FEL
Bottom Hole: 1411' FNL, 494' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-35H1BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

API Number: 4304751365

Well Name: NBU 921-35H1BS

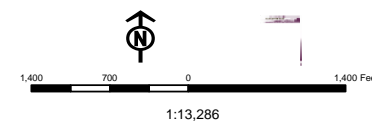
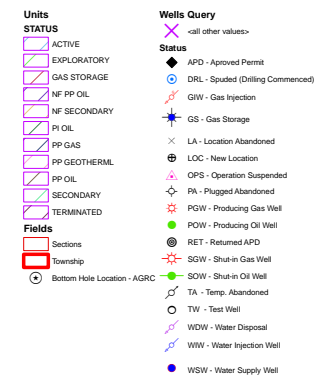
Township 09.0 S Range 21.0 E Section 35

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:

Map Produced by Diana Mason



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

December 1, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35F2 Pad

43-047-51355	NBU 921-35F1BS	Sec 35 T09S R21E 1684 FNL 1709 FWL
	BHL	Sec 35 T09S R21E 1531 FNL 2146 FWL

NBU 921-35F4 PAD

43-047-51356	NBU 921-35F4BS	Sec 35 T09S R21E 2473 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2210 FNL 2158 FWL

43-047-51357	NBU 921-35F4CS	Sec 35 T09S R21E 2483 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2567 FNL 2159 FWL

43-047-51358	NBU 921-35K1BS	Sec 35 T09S R21E 2493 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2484 FSL 2161 FWL

43-047-51359	NBU 921-35K1CS	Sec 35 T09S R21E 2503 FNL 2357 FWL
	BHL	Sec 35 T09S R21E 2163 FSL 2155 FWL

NBU 921-35G Pad

43-047-51360	NBU 921-35G1BS	Sec 35 T09S R21E 2053 FNL 1633 FEL
	BHL	Sec 35 T09S R21E 1583 FNL 1819 FEL

43-047-51361	NBU 921-35G1CS	Sec 35 T09S R21E 2053 FNL 1653 FEL
	BHL	Sec 35 T09S R21E 1916 FNL 1820 FEL

43-047-51362	NBU 921-35G4BS	Sec 35 T09S R21E 2053 FNL 1643 FEL
	BHL	Sec 35 T09S R21E 2250 FNL 1822 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51363	NBU 921-35G4CS	Sec 35 T09S R21E 2053 FNL 1623 FEL
	BHL	Sec 35 T09S R21E 2583 FNL 1823 FEL
43-047-51364	NBU 921-35J1BS	Sec 35 T09S R21E 2053 FNL 1613 FEL
	BHL	Sec 35 T09S R21E 2419 FSL 1824 FEL
NBU 921-35H PAD		
43-047-51365	NBU 921-35H1BS	Sec 35 T09S R21E 2143 FNL 0486 FEL
	BHL	Sec 35 T09S R21E 1411 FNL 0494 FEL
43-047-51366	NBU 921-35H1CS	Sec 35 T09S R21E 2133 FNL 0490 FEL
	BHL	Sec 35 T09S R21E 1743 FNL 0495 FEL
43-047-51367	NBU 921-35H4BS	Sec 35 T09S R21E 2124 FNL 0493 FEL
	BHL	Sec 35 T09S R21E 2075 FNL 0495 FEL
43-047-51368	NBU 921-35H4CS	Sec 35 T09S R21E 2152 FNL 0483 FEL
	BHL	Sec 35 T09S R21E 2407 FNL 0495 FEL
NBU 921-35I PAD		
43-047-51369	NBU 921-35I1BS	Sec 35 T09S R21E 2106 FSL 0794 FEL
	BHL	Sec 35 T09S R21E 2572 FSL 0496 FEL
43-047-51370	NBU 921-35I1CS	Sec 35 T09S R21E 2098 FSL 0800 FEL
	BHL	Sec 35 T09S R21E 2240 FSL 0496 FEL
43-047-51371	NBU 921-35I4BS	Sec 35 T09S R21E 2090 FSL 0806 FEL
	BHL	Sec 35 T09S R21E 1908 FSL 0496 FEL
43-047-51372	NBU 921-35I4CS	Sec 35 T09S R21E 2082 FSL 0811 FEL
	BHL	Sec 35 T09S R21E 1577 FSL 0497 FEL
43-047-51373	NBU 921-35J1CS	Sec 35 T09S R21E 2074 FSL 0817 FEL
	BHL	Sec 35 T09S R21E 2086 FSL 1825 FEL
43-047-51374	NBU 921-35J4BS	Sec 35 T09S R21E 2066 FSL 0823 FEL
	BHL	Sec 35 T09S R21E 1752 FSL 1826 FEL
NBU 921-35K PAD		
43-047-51375	NBU 921-35K4BS	Sec 35 T09S R21E 1710 FSL 1409 FWL
	BHL	Sec 35 T09S R21E 1814 FSL 2165 FWL
43-047-51376	NBU 921-35K4CS	Sec 35 T09S R21E 1702 FSL 1403 FWL
	BHL	Sec 35 T09S R21E 1469 FSL 2163 FWL
43-047-51377	NBU 921-35N1BS	Sec 35 T09S R21E 1694 FSL 1397 FWL
	BHL	Sec 35 T09S R21E 1124 FSL 2161 FWL
43-047-51378	NBU 921-35N1CS	Sec 35 T09S R21E 1686 FSL 1392 FWL
	BHL	Sec 35 T09S R21E 0771 FSL 2162 FWL

API #	WELL NAME	LOCATION
NBU 921-35L PAD		
43-047-51379	NBU 921-35E4CS	Sec 35 T09S R21E 2016 FSL 0768 FWL
	BHL	Sec 35 T09S R21E 2343 FNL 0823 FWL
43-047-51386	NBU 921-35L1BS	Sec 35 T09S R21E 2013 FSL 0778 FWL
	BHL	Sec 35 T09S R21E 2658 FSL 0826 FWL
43-047-51389	NBU 921-35L1CS	Sec 35 T09S R21E 2009 FSL 0787 FWL
	BHL	Sec 35 T09S R21E 2255 FSL 0835 FWL
43-047-51390	NBU 921-35L4CS	Sec 35 T09S R21E 2005 FSL 0796 FWL
	BHL	Sec 35 T09S R21E 1470 FSL 0832 FWL
NBU 921-35P PAD		
43-047-51380	NBU 921-35P4CS	Sec 35 T09S R21E 0781 FSL 0557 FEL
	BHL	Sec 35 T09S R21E 0208 FSL 0489 FEL
43-047-51381	NBU 921-35P1CS	Sec 35 T09S R21E 0778 FSL 0547 FEL
	BHL	Sec 35 T09S R21E 0913 FSL 0497 FEL
43-047-51382	NBU 921-35P1BS	Sec 35 T09S R21E 0785 FSL 0566 FEL
	BHL	Sec 35 T09S R21E 1245 FSL 0497 FEL
NBU 921-35O PAD		
43-047-51383	NBU 921-35O4CS	Sec 35 T09S R21E 0360 FSL 1780 FEL
	BHL	Sec 35 T09S R21E 0026 FSL 1826 FEL
43-047-51384	NBU 921-35O4BS	Sec 35 T09S R21E 0370 FSL 1777 FEL
	BHL	Sec 35 T09S R21E 0336 FSL 1833 FEL
43-047-51385	NBU 921-35O1CS	Sec 35 T09S R21E 0398 FSL 1766 FEL
	BHL	Sec 35 T09S R21E 0674 FSL 1828 FEL
43-047-51387	NBU 921-35O1BS	Sec 35 T09S R21E 0407 FSL 1763 FEL
	BHL	Sec 35 T09S R21E 1059 FSL 1833 FEL
43-047-51388	NBU 921-35N4CS	Sec 35 T09S R21E 0379 FSL 1773 FEL
	BHL	Sec 35 T09S R21E 0051 FSL 2153 FWL
43-047-51395	NBU 921-35N4BS	Sec 35 T09S R21E 0388 FSL 1770 FEL
	BHL	Sec 35 T09S R21E 0410 FSL 2164 FWL
NBU 921-35M PAD		
43-047-51391	NBU 921-35M1BS	Sec 35 T09S R21E 0469 FSL 0526 FWL
	BHL	Sec 35 T09S R21E 1096 FSL 0830 FWL
43-047-51392	NBU 921-35M1CS	Sec 35 T09S R21E 0474 FSL 0534 FWL
	BHL	Sec 35 T09S R21E 0760 FSL 0830 FWL

API #	WELL NAME	LOCATION
43-047-51393	NBU 921-35M4BS	Sec 35 T09S R21E 0478 FSL 0543 FWL
	BHL	Sec 35 T09S R21E 0423 FSL 0831 FWL
43-047-51394	NBU 921-35M4CS	Sec 35 T09S R21E 0464 FSL 0517 FWL
	BHL	Sec 35 T09S R21E 0055 FSL 0834 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of
Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.12.01 10:03:00 -07'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-1-10

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35H1BS 4304751365			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2537	9685		
Previous Shoe Setting Depth (TVD)	40	2537		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5908	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1099	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	795	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	541	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	550	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6043	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4881	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3912	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4470	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2537	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

SE NE Sec 35-95-21E

Well name:	43047513650000 NBU 921-35H1BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Surface	Project ID: 43-047-51365
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 110 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,502 ft

Burst

Max anticipated surface pressure: 2,297 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,601 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,284 ft

Directional well information:

Kick-off point 300 ft
Departure at shoe: 528 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 17.34 °

Re subsequent strings:

Next setting depth: 9,685 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,038 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,610 ft
Injection pressure: 2,610 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2610	8.625	28.00	I-55	LT&C	2537	2610	7.892	103356

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1098	1880	1.713	2601	3390	1.30	71	348	4.90 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 13, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2537 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047513650000 NBU 921-35H1BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-51365
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 210 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,978 ft

Burst

Max anticipated surface pressure: 3,907 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,038 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Directional well information:

Kick-off point 300 ft
Departure at shoe: 732 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 8,046 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9783	4.5	11.60	I-80	LT&C	9685	9783	3.875	129136

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5534	6360	1.149	6038	7780	1.29	112.3	212	1.89 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 13, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9685 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Curry, Kristine; Danielle Piernot; Garrison, LaVonne; Hayden, Martha;...
Date: 12/22/2010 5:49 AM
Subject: Kerr McGee APD approvals in 9S 21E Sec 35
Attachments: KMG approvals 921-35 on 12.22.2010.xls

The following wells have been approved by SITLA under the following arch and paleo stipulations. This is a long list, so I'm attaching a spreadsheet with the same information.

A note on arch and paleo stipulations: Wells that have an arch note "non-significant site" do not need to be avoided or mitigated. Only those that say "needs to be avoided".

The paleo reports make recommendations for "spot paleo monitoring" or "full paleo monitoring". It is my understanding that Kerr McGee is taking these stipulations and doing full monitoring in either case, in an abundance of caution.

-Jim Davis

Well Name	API	Paleo Stipulations	Arch Stipulations
Kerr-McGee's NBU 921-35A1BS (U-07-MQ-1437b,i,p,s)		API #4304751339	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35A4CS (U-07-MQ-1437b,i,p,s)		API #4304751340	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1BS (U-07-MQ-1437b,i,p,s)		API #4304751341	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4BS (U-07-MQ-1437b,i,p,s)		API #4304751342	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751343	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751344	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751345	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C4BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751346	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1CS (U-07-MQ-1437b,i,p,s)		API #4304751347	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1BS (U-07-MQ-1437b,i,p,s)		API #4304751348	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1CS (U-07-MQ-1437b,i,p,s)		API #4304751349	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D4CS (U-07-MQ-1437b,i,p,s)		API #4304751350	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35C4CS (U-07-MQ-1437b,i,p,s)		API #4304751351	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E1CS (U-07-MQ-1437b,i,p,s)		API #4304751352	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E2AS (U-07-MQ-1437b,i,p,s)		API #4304751353	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F1BS (U-07-MQ-1437b,i,p,s)		API #4304751355	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4BS (U-07-MQ-1437b,i,p,s)		API #4304751356	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4CS (U-07-MQ-1437b,i,p,s)		API #4304751357	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K1BS		API #4304751358	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)

MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K1CS	API #4304751359	IPC 10-97 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35G1BS	API #4304751360	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G1CS	API #4304751361	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4BS	API #4304751362	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4CS	API #4304751363	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35J1S	API #4304751364	IPC 10-98 Spot Paleo Monitoring	(U-07-
MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35H1BS	API #4304751365	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H1CS	API #4304751366	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4BS	API #4304751367	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4CS	API #4304751368	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1BS	API #4304751369	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1CS	API #4304751370	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4BS	API #4304751371	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4CS	API #4304751372	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J1CS	API #4304751373	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J4BS	API #4304751374	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4BS	API #4304751375	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4CS	API #4304751376	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1BS	API #4304751377	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1CS	API #4304751378	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35E4CS	API #4304751379	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P4CS	API #4304751380	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1CS	API #4304751381	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1BS	API #4304751382	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35O4CS	API #4304751383	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O4BS	API #4304751384	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O1CS	API #4304751385	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35L1BS	API #4304751386	IPC 10-99 Spot Paleo Monitoring	

(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35O1BS	API #4304751387	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35N4CS	API #4304751388	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35L1CS	API #4304751389	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35L4CS	API #4304751390	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1BS	API #4304751391	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1CS	API #4304751392	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4BS	API #4304751393	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4CS	API #4304751394	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35N4BS	API #4304751395	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 921-35H1BS				
API Number	43047513650000	APD No	3198	Field/Unit	NATURAL BUTTES
Location: 1/4,1/4	SENE	Sec	35	Tw	9.0S
		Rng	21.0E	2143	FNL 486 FEL
GPS Coord (UTM)	627148	4427929	Surface Owner		

Participants

See other comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 44.6 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35H pad will be created by significantly enlarging the existing pad of the CIGE 239 gas well. It will be enlarged in all directions. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-35H4BS, NBU 921-35H1CS, NBU 921-35H1BS and MBU 921-35H4CS. The site is on the west slope of a hill in moderately gentle terrain. A swale exists to the northeast of the location. A drainage to the northwest is spilling a minor amount of sediment onto the location but a diversion is not warranted. A major tributary of Sand Wash is about 3/10 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 455	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes rabbit brush, Indian ricegrass, black sage, stipa commata, greasewood, broom snakeweed, shadscale and halogeton.

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are a shallow rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score	40	1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120' x 260' x 12' deep located in a cut on the southwest corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Lovell Young, Grizz Oleen, Charles Chase, Colby Sutton, Doyle Holmes, Claudia Sass, (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA) and Ben Williams, (UDWR).

Floyd Bartlett
Evaluator

11/30/2010
Date / Time

Application for Permit to Drill

Statement of Basis

12/27/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3198	43047513650000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35H1BS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SENE 35 9S 21E S 2143 FNL 486 FEL GPS Coord (UTM) 627163E 4427927N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,610' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,400'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill
APD Evaluator

12/20/2010
Date / Time

Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 44.6 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35H pad will be created by significantly enlarging the existing pad of the CIGE 239 gas well. It will be enlarged in all directions. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-35H4BS, NBU 921-35H1CS, NBU 921-35H1BS and MBU 921-35H4CS. The site is on the west slope of a hill in moderately gentle terrain. A swale exists to the northeast of the location. A drainage to the northwest is spilling a minor amount of sediment onto the location but a diversion is not warranted. A major tributary of Sand Wash is about 3/10 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Floyd Bartlett
Onsite Evaluator

11/30/2010
Date / Time

Application for Permit to Drill
Statement of Basis

12/27/2010

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/23/2010

WELL NAME: NBU 921-35H1BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

CONTACT: Danielle Piernot

API NO. ASSIGNED: 43047513650000

PHONE NUMBER: 720 929-6156

PROPOSED LOCATION: SENE 35 090S 210E

Permit Tech Review: ☒

SURFACE: 2143 FNL 0486 FEL

Engineering Review: ☒

BOTTOM: 1411 FNL 0494 FEL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.99385

LONGITUDE: -109.51047

UTM SURF EASTINGS: 627163.00

NORTHINGS: 4427927.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22582

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☒ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** NATURAL BUTTES
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 173-14
- Effective Date:** 12/2/1999
- Siting:** Suspends General Siting
- ☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmadonald



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-35H1BS
API Well Number: 43047513650000
Lease Number: ML 22582
Surface Owner: STATE
Approval Date: 12/27/2010

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 173-14 commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Surface casing shall be cemented to the surface.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35H1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2143 FNL 0486 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513650000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/17/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX. SPUD WELL LOCATION ON AUGUST 17, 2011 AT 12:30 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 8/18/2011		

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
Well Name/Number NBU 921-35H1BS
Qtr/Qtr SENE Section 35 Township 9S Range 21E
Lease Serial Number ML-22582
API Number 4304751367.5

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 08/17/2011 1000 HRS AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

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DIV. OF OIL, GAS & MINING

Date/Time 09/06/2011 0800 HRS AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT
LOVEL YOUNG AT 435.781.7051 FOR MORE

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35H1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2143 FNL 0486 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513650000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/30/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests authorization to deepen this well to the Blackhawk formation which resides in the Mesaverde formation. Attached is the proposed drilling program. All other information remains the same as documented in the originally approved Application for Permit to Drill.		
Approved by the Utah Division of Oil, Gas and Mining Date: 08/29/2011 By:		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 8/29/2011		

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-35H1BS**

Surface: 2143 FNL / 486 FEL SENE
 BHL: 1411 FNL / 494 FEL SENE

Section 35 T9S R21E

Unitah County, Utah
 Mineral Lease: ST UT ML 22582

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1459	
Birds Nest	1785	Water
Mahogany	2160	Water
Wasatch	4748	Gas
Mesaverde	7449	Gas
MVU2	8362	Gas
MVL1	8946	Gas
Sego	9685	Gas
Castlegate	9738	Gas
MN5	10153	Gas
TVD	10753	
TD	10850	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 10753' TVD, approximately equals
7,146 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,780 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point-

(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooi line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooi line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	August 29, 2011		
WELL NAME	NBU 921-35H1BS				TD	10,753'	TVD	10,850' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,098'
SURFACE LOCATION	SENE	2143 FNL	486 FEL	Sec 35	T 9S	R 21E		
	Latitude:	39.993902	Longitude:	-109.510523		NAD 27		
BTM HOLE LOCATION	SENE	1411 FNL	494 FEL	Sec 35	T 9S	R 21E		
	Latitude:	39.995911	Longitude:	-109.510555		NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.							

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			↑ 12-1/4 ↓	↑ 8-5/8", 28#, IJ-55, LTC ↓	↑ Air mist ↓
		200'			
			↑ 11.00' ↓	↑ 8-5/8", 28#, IJ-55, LTC ↓	↑ Air mist ↓
All water flows encountered while drilling will be reported to the appropriate agencies.					
	Green River @	1,459'			
	Top of Birds Nest @	1,785'			
	Mahogany @	2,160'			
	Preset f/ GL @				
	2,610' TVD				
Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
	Wasatch @	4,748'			
Mud logging program TBD Cased hole logging program from TD - surf csg					
			7-7/8"	4-1/2" 11.6# HCP-110 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-13.0 ppg
	Mverde @	7,449' TVD			
	MVU2 @	8,362' TVD			
	MVU1 @	8,946' TVD			
	Sego @	9,685' TVD			
	Castlegate @	9,738' TVD			
	MN5 @	10,153' TVD			

NBU 921-35H Pad

Max anticipated
Mud required
13.0 ppg

TD @

10,753' TVD
10,850' MD



Drilling Program
6 of 8

NBU 921-35H Pad

Drilling Program
7 of 8

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

						DESIGN FACTORS			
						LTC		BTC	
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'							
							3,390	1,880	348,000
SURFACE	8-5/8"	0	to 2,610	28.00	IJ-55	LTC	2.07	1.54	5.44
							10,690	8,650	279,000
PRODUCTION	4-1/2"	0	to 10,850	11.60	HCP-110	LTC or BTC	1.19	1.19	2.77
									367,000
									3.64

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
			+ 0.25 pps flocele					
Option 1								
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2								
	LEAD	2,110'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	4,240'	Premium Lite II +0.25 pps	320	20%	11.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	6,610'	50/50 Poz/G + 10% salt + 2% gel	1,560	35%	14.30		1.31
			+ 0.1% R-3					

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Danny Showers

DATE:

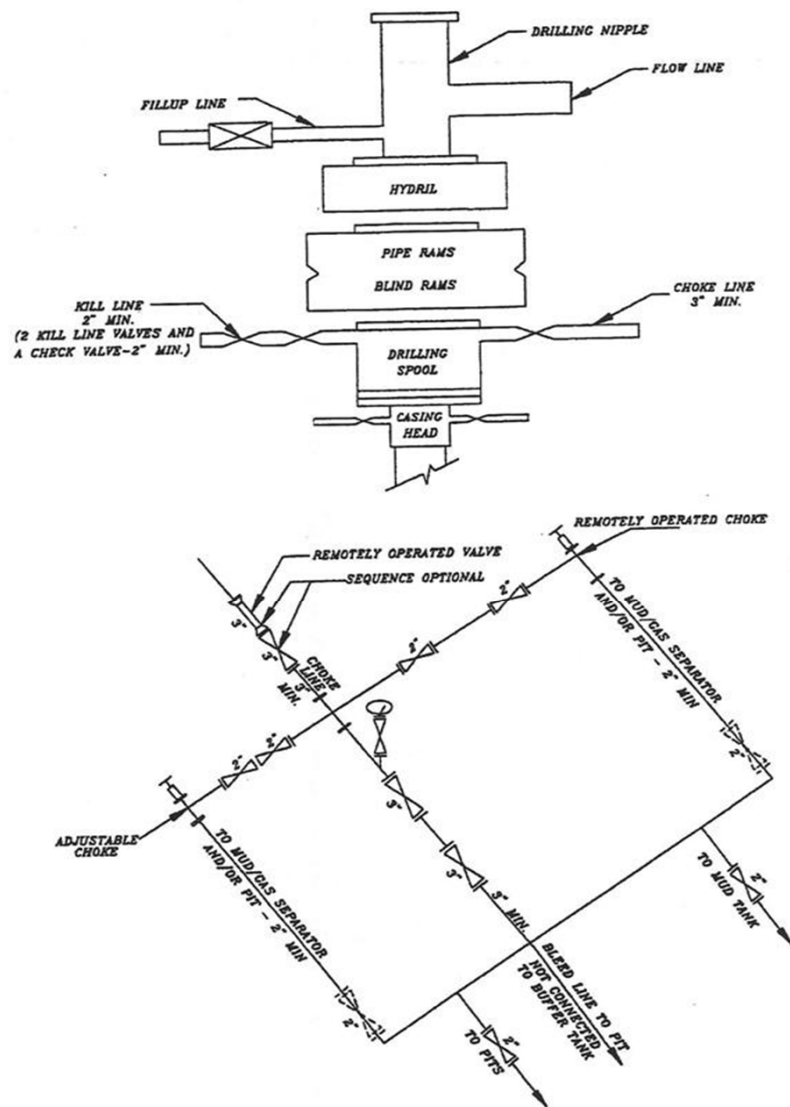
DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

RECEIVED Aug. 29, 2011

NBU 921-35H Pad

Drilling Program
8 of 8**EXHIBIT A**
NBU 921-35H1BS**SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751368	NBU 921-35H4CS		SENE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	8/17/2011		<u>8/29/11</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 8/17/2011 AT 10:30 HRS. <u>BHL = SENE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751365	NBU 921-35H1BS		SENE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	8/17/2011		<u>8/29/11</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 8/17/2011 AT 12:30 HRS. <u>BHL = SENE</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751366	NBU 921-35H1CS		SENE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	8/17/2011		<u>8/29/11</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 8/17/2011 AT 14:30 HRS. <u>BHL = SENE</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

AUG 22 2011

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

8/22/2011

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35H1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2143 FNL 0486 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513650000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/1/2011	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON AUGUST 31, 2011. DRILLED SURFACE HOLE TO 2740'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 9/2/2011		

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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections. Thank you.					
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 9/26/2011		DATE 10/05/2011 By:			

Please Review Attached Conditions of Approval

RECEIVED Sep. 26, 2011



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047513650000

A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the pit.

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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT waiver, closed loop drilling option, and a production casing change. All other aspects of the previously approved drilling plan will not change. These proposals do not deviate from previously submitted and approved plans. Please see attachments. Thank you.					
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst			
SIGNATURE N/A	DATE 11/7/2011				

NBU 921-35H1BS

Drilling Program
1 of 7**Kerr-McGee Oil & Gas Onshore. L.P.****NBU 921-35H1BS**

Surface: 2143 FNL / 486 FEL SENE
 BHL: 1411 FNL / 494 FEL SENE

Section 35 T9S R21E

Unitah County, Utah
 Mineral Lease: ST UT ML 22582

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,459'	
Birds Nest	1,785'	Water
Mahogany	2,160'	Water
Wasatch	4,748'	Gas
Mesaverde	7,449'	Gas
MVU2	8,362'	Gas
MVL1	8,946'	Gas
Sego	9,685'	Gas
Castlegate	9,738'	Gas
MN5	10,153'	Gas
TVD	10,753'	
TD	10,850'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 10753' TVD, approximately equals
7,097 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,780 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

NBU 921-35H1BS

Drilling Program
6 of 7

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,712	28.00	IJ-55	LTC	1.98	1.48	5.23	N/A
						10,690	8,650	279,000	367,174
PRODUCTION	4-1/2"	0 to 5,000	11.60	HCP-110	DQX	1.19	1.19		3.64
	4-1/2"	5,000 to 10,850'	11.60	HCP-110	LTC	1.19	1.19	5.13	

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi)

0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2							
	LEAD	2,212'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	200	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,240'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	20%	11.00	3.38
	TAIL	6,610'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,560	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

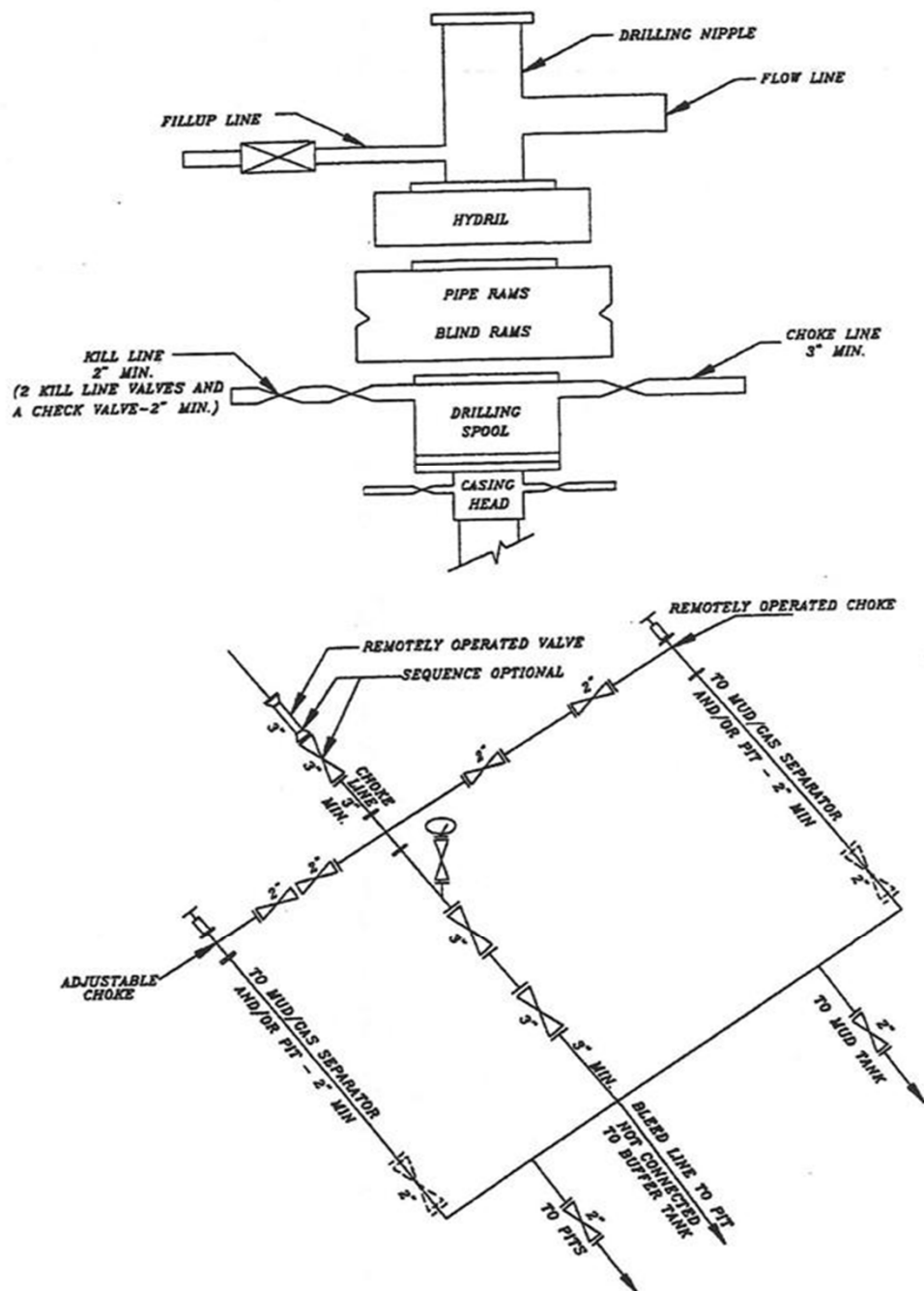
Nick Spence / Danny Showers / Chad Loesel

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:
RECEIVED Nov. 07, 2011

NBU 921-35H4CS

Drilling Program
7 of 7**EXHIBIT A
NBU 921-35H1BS****SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35H1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2143 FNL 0486 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513650000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/9/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 MIRU ROTARY RIG. FINISHED DRILLING FROM 2740' TO 10,880' ON JAN. 7, 2012. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED H&P RIG 298 ON JAN. 9, 2012 @ 23:59 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

January 11, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 1/10/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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COUNTY: UTAH		STATE: UTAH
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TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/16/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
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	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 03/16/2012 AT 1345 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 19, 2012		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/19/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH			
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/24/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator wishes to recomplete the referenced well in a different formation. Please see the attached procedure. Thank you.					
Approved by the Utah Division of Oil, Gas and Mining Date: May 01, 2014 By:					
NAME (PLEASE PRINT) Matthew P Wold	PHONE NUMBER 720 929-6993	TITLE Regulatory Analyst I			
SIGNATURE N/A	DATE 4/24/2014				



Greater Natural Buttes Unit

**NBU 921-35H1BS
RE-COMPLETIONS PROCEDURE
NBU 921-35H PAD
FIELD ID: BLUE WELL**

**DATE: 4/15/2014
AFE#:
API#: 4304751365
USER ID: SNT239 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Jamie Berghorn, Denver, CO
(720) 929-6230 (Office)
(303) 909-3417 (Cell)**

REMEMBER SAFETY FIRST!

Name: NBU 921-35H1BS
Location: NW NE SE NE Sec 35 T9S R21E
LAT: 39.993867 **LONG:** -109.511210 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT

ELEVATIONS: 5,098' GL 5,124' KB *Frac Registry TVD: 10,785'*

TOTAL DEPTH: 10,880'

PBTD: 10,819'

SURFACE CASING:

8 5/8", 28# J-55 LTC @ 2,734'

PRODUCTION CASING:

4 1/2", 11.6#, P-110 DQX @ 5,241'

4 1/2", 11.6#, P-110 LTC @ 10,864'

Marker Joint **5,227-5,248 & 7,530-7,551 & 10,260-10,280'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1,579' Green River Top

1,787' Bird's Nest Top

2,370' Mahogany Top

4,871' Wasatch Top

7,557' Mesaverde Top

*Based on latest geological interpretation

BOTTOMS:

7,557' Wasatch Bottom

10,880' Mesaverde Bottom (TD)

T.O.C. @ 2292'

**Based on latest interpretation of CBL

GENERAL NOTES:

- **Please note that:**
 - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
 - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **34** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Schlumberger's GRlog dated **2/17/2012**.
- **13** fracturing stages required for coverage.
- Hydraulic isolation estimated at **2440'** based upon Schlumberger's CBL dated 2/17/2012.
- Procedure calls for **14** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**

- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Mesaverde 1 ppg; Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing – design will over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 1-3, 5, 7-9, 11**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

Existing Perforations:

<u>PERFORATIONS</u>							
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>
MESAVERDE	BLACKHAWK	10354	10356	4	8		PRODUCTION
MESAVERDE	BLACKHAWK	10368	10372	4	16		PRODUCTION
MESAVERDE	BLACKHAWK	10397	10398	3	3		PRODUCTION
MESAVERDE	BLACKHAWK	10407	10410	3	9		PRODUCTION
MESAVERDE	BLACKHAWK	10416	10418	3	6		PRODUCTION
MESAVERDE	BLACKHAWK	10444	10446	3	6		PRODUCTION
MESAVERDE	BLACKHAWK	10514	10518	4	16		PRODUCTION
MESAVERDE	BLACKHAWK	10734	10736	4	8		PRODUCTION

Relevant History:

03/05/2012: Originally completed in Blackhawk formation (3 stages) with ~ 326734 gallons of Slickwater, 180508 lbs of 30/50 TLC.

10/08/2013: Last slickline report:

Traveled to location rigged up ran jdc found heavy fluid @ 900 drift down to 10345 came out with a viper plunger ran jdc set down @ 10345 jarred on spring for a while came out with a stainless steal spring ran td set down @ 10798 came out ran scratcher out the tubing came out ran 1.9 broach set down @ 10345 came out tubing was clean there was trace of sand on the broach spring and plunger looks good left stainless steal spring and viper plunger out well was logged off and selling of the back side rigged down traveled to the next location

03/16/2012: Tubing Currently Landed @~10358'

H2S History:

Location Name	WINS No. (wel...	Production Date	Gas (avg mcf...	Water (avg bb...	Oil (avg bbl/day)	Avg. BOE/day	LGR (bbl/Mmcf)	Max H2S Sep.	Separator H2.	Tank H2S (lbs)
NBU 921-35H1BS	E3155	3/31/2012	269.61	0.00	0.00	44.94	0.00			
NBU 921-35H1BS	E3155	4/30/2012	310.27	0.00	0.00	51.71	0.00	0.00	0.00	0.00
NBU 921-35H1BS	E3155	5/31/2012	225.32	0.00	0.00	37.55	0.00	0.00	0.00	0.00
NBU 921-35H1BS	E3155	6/30/2012	191.87	0.00	0.00	31.98	0.00			
NBU 921-35H1BS	E3155	7/31/2012	148.68	0.00	0.00	24.78	0.00			
NBU 921-35H1BS	E3155	8/31/2012	116.00	0.00	0.00	19.33	0.00			
NBU 921-35H1BS	E3155	9/30/2012	113.10	0.00	0.00	18.85	0.00			
NBU 921-35H1BS	E3155	10/31/2012	103.48	0.00	0.00	17.25	0.00			
NBU 921-35H1BS	E3155	11/30/2012	96.77	0.00	0.00	16.13	0.00			
NBU 921-35H1BS	E3155	12/31/2012	44.45	0.00	0.00	7.41	0.00			
NBU 921-35H1BS	E3155	1/31/2013	17.13	0.00	0.00	2.85	0.00			
NBU 921-35H1BS	E3155	2/28/2013	9.32	0.00	0.00	1.55	0.00			
NBU 921-35H1BS	E3155	3/31/2013	9.74	0.00	0.00	1.62	0.00			
NBU 921-35H1BS	E3155	4/30/2013	5.90	0.00	0.00	0.98	0.00			
NBU 921-35H1BS	E3155	5/31/2013	5.48	0.00	0.00	0.91	0.00	0.00	0.00	0.00
NBU 921-35H1BS	E3155	6/30/2013	7.90	0.00	0.00	1.32	0.00			
NBU 921-35H1BS	E3155	7/31/2013	3.94	0.00	0.00	0.66	0.00			
NBU 921-35H1BS	E3155	8/31/2013	3.84	0.00	0.00	0.64	0.00			
NBU 921-35H1BS	E3155	9/30/2013	3.50	0.00	0.00	0.58	0.00			
NBU 921-35H1BS	E3155	10/31/2013	3.55	0.00	0.00	0.59	0.00			
NBU 921-35H1BS	E3155	11/30/2013	6.83	0.00	0.00	1.14	0.00			
NBU 921-35H1BS	E3155	12/31/2013	1.35	0.00	0.00	0.23	0.00			
NBU 921-35H1BS	E3155	1/31/2014	1.94	0.00	0.00	0.32	0.00			
NBU 921-35H1BS	E3155	2/28/2014	6.36	0.00	0.00	1.06	0.00			
NBU 921-35H1BS	E3155	3/31/2014	5.77	0.00	0.00	0.96	0.00			

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOO H with 2-3/8", 4.7#, L-80 tubing. Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 9660' (50' below proposed CBP). Otherwise P/U a mill and C/O to 9660' (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 9610'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve.** Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.

6. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	9403	9404	3	3
MESAVERDE	9464	9465	3	3
MESAVERDE	9500	9501	3	3
MESAVERDE	9528	9529	3	3
MESAVERDE	9544	9546	3	6
MESAVERDE	9578	9580	3	6

7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~9403' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BLS

8. Set 8000 psi CBP at ~9385'. Perf the following 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	9108	9109	3	3
MESAVERDE	9123	9124	3	3
MESAVERDE	9153	9154	3	3
MESAVERDE	9172	9173	3	3
MESAVERDE	9296	9297	3	3
MESAVERDE	9304	9305	3	3
MESAVERDE	9328	9329	3	3
MESAVERDE	9354	9355	3	3

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~9108' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BLS

10. Set 8000 psi CBP at ~9095'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	8873	8874	3	3
MESAVERDE	8906	8907	3	3
MESAVERDE	8930	8931	3	3
MESAVERDE	8957	8958	3	3
MESAVERDE	8972	8973	3	3
MESAVERDE	9001	9002	3	3
MESAVERDE	9041	9042	3	3
MESAVERDE	9081	9082	3	3

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~8873' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BLS

12. Set 8000 psi CBP at ~8830'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	8646	8647	3	3
MESAVERDE	8751	8752	3	3
MESAVERDE	8764	8765	3	3
MESAVERDE	8778	8779	3	3
MESAVERDE	8788	8789	3	3
MESAVERDE	8798	8800	3	6

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~8646' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

14. Set 8000 psi CBP at ~8596'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	8386	8387	3	3
MESAVERDE	8417	8418	3	3

MESAVERDE	8432	8433	3	3
MESAVERDE	8475	8476	3	3
MESAVERDE	8513	8514	3	3
MESAVERDE	8548	8549	3	3
MESAVERDE	8560	8561	3	3
MESAVERDE	8567	8568	3	3

15. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~8386' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BLS

16. Set 8000 psi CBP at ~8374'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	8209	8210	3	3
MESAVERDE	8264	8265	3	3
MESAVERDE	8291	8292	3	3
MESAVERDE	8302	8303	3	3
MESAVERDE	8315	8317	3	6
MESAVERDE	8342	8344	3	6

17. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~8209' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

18. Set 8000 psi CBP at ~8159'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7996	7997	3	3
MESAVERDE	8018	8019	3	3
MESAVERDE	8078	8079	3	3
MESAVERDE	8103	8104	3	3
MESAVERDE	8126	8128	3	6
MESAVERDE	8136	8138	3	6

19. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~7996' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BLS

20. Set 8000 psi CBP at ~7986'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7784	7785	3	3
MESAVERDE	7807	7808	3	3
MESAVERDE	7821	7822	3	3
MESAVERDE	7855	7856	3	3
MESAVERDE	7900	7901	3	3
MESAVERDE	7913	7914	3	3
MESAVERDE	7943	7944	3	3
MESAVERDE	7962	7963	3	3

21. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~7784' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BLS

22. Set 8000 psi CBP at ~7774'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7607	7608	3	3
MESAVERDE	7621	7622	3	3
MESAVERDE	7662	7664	3	6
MESAVERDE	7734	7736	3	6
MESAVERDE	7757	7759	3	6

23. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~7607' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

24. Set 8000 psi CBP at ~7582'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7459	7460	3	3
MESAVERDE	7489	7490	3	3
MESAVERDE	7532	7533	3	3
MESAVERDE	7538	7540	3	6
MESAVERDE	7550	7552	3	6

25. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 10 on attached listing. Under-displace to ~7459' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

26. Set 8000 psi CBP at ~7062'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6825	6828	3	9
WASATCH	6970	6972	3	6
WASATCH	7029	7032	3	9

27. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 11 on attached listing. Under-displace to ~6825' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

28. Set 8000 psi CBP at ~6794'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6572	6574	3	6
WASATCH	6598	6601	3	9
WASATCH	6761	6764	3	9

29. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 12 on attached listing. Under-displace to ~6572' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

30. Set 8000 psi CBP at ~6317'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6242	6246	4	16
WASATCH	6285	6287	4	8

31. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 13 on attached listing. Under-displace to ~6242' and flush only with recycled water.

32. Set 8000 psi CBP at ~6317'.

33. ND Frac Valves, NU and Test BOPs.
34. TIH with 3 7/8" bit, pump open sub, SN and tubing.
35. Drill 13 plugs and clean out to a depth of 9600' (~ 20' below bottom perms). This well WILL NOT be commingled at this time.
36. Shift pump open bit sub and land tubing at 9373'. Flow back completion load. RDMO.
37. MIRU, POOH tbg and POBS. TIH with POBS.
38. Drill last plug @ 9610' clean out to PBTD at 10819'. Shear off bit and land tubing at $\pm 10358'$. This well WILL be commingled at this time. **NOTE: If the CBP between the initial completion and the recompleted sands has been in the well for more than 30 calendar days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.**
39. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
40. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Jamie Berghorn: 303/909-3417, 720/929-6230

Production Engineer

Mickey Doherty: 406/491-7294, 435/781-9740

Ronald Trigo: 352/213-6630, 435/781-7037

Brad Laney: 435/781-7031, 435/828-5469

Boone Bajgier: 435/781/7096, 713/416/4816

Heath Pottmeyer: 740/525-3445, 435/781-9789

Anqi Yang: 435/828-6505, 435/781-7015

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Fracturing Schedules

NBU 921-35H1BS
Slickwater Frac

Copy to new book

Casing Size	4.5
Recompleter?	Y
Pad?	Y
ACTIS?	N
Days on Pad?	3
Wells on Pad?	4

Swabbing Days	3
Production Log	0
DFT	0
GR only	Y
Low Scale	Y
Clay Stab.	N

Enter Number of swabbing days here for recompletes
Enter 1 if running a Production Log
Enter Number of DFTs
Enter Y if only Gamma Ray log was run
Enter Y if a LOW concentration of Scale Inhibitor will be pumped
Enter N if there will be NO Clay stabilizer

Stage	Zone	Perfs Top, ft. Bot, ft	SPF Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	9403	3	Varied	Pre-Pad & Pump-in test			Slickwater	6,138	6,138	146	146						3
	MESAVERDE	9464	3	0	ISIP and 5 min ISIP			Slickwater	6,345	12,483	151	297	15.0%	0.0%	0	0		3
	MESAVERDE	9500	3	50	Slickwater Pad	0.25	0.625	Slickwater	11,985	24,468	285	583	28.3%	21.9%	5,243	5,243		6
	MESAVERDE	9528	3	50	Slickwater Ramp	0	0	Slickwater	0	24,468	0	583	0.0%	0.0%	0	5,243		0
	MESAVERDE	9544	3	6	50 SW Sweep	0.63	0.75	Slickwater	11,985	36,453	285	868	28.3%	34.4%	8,240	13,483		6
	MESAVERDE	9578	3	6	50 Slickwater Ramp	0	0	Slickwater	0	36,453	0	868	0.0%	0.0%	0	13,483		0
	MESAVERDE			50	SW Sweep	0.25	0.75	Slickwater	0	36,453	0	868	0.0%	0.0%	0	13,483		0
	MESAVERDE			50	Slickwater Ramp	0.75	1	Slickwater	11,985	48,438	285	1,153	28.3%	43.8%	10,487	23,970		6
	MESAVERDE			50	Flush (4-1/2)			Slickwater	6,138	54,577	146	1,299				23,970		3
	MESAVERDE			50	ISIP and 5 min ISIP													27
2	MESAVERDE	9108	3	26.0	<< Above pump time (min)			Sand laden	Volume	42,300								
	MESAVERDE	9123	3	Varied	Pump-in test			Slickwater	6,930	6,930	165	165	15.0%	0.0%	0	0		3
	MESAVERDE	9153	3	0	ISIP and 5 min ISIP	0.25	0.625	Slickwater	13,090	20,020	312	477	28.3%	21.9%	5,727	5,727		7
	MESAVERDE	9172	3	50	Slickwater Ramp	0	0	Slickwater	0	20,020	0	477	0.0%	0.0%	0	5,727		0
	MESAVERDE	9296	3	3	50 SW Sweep	0.63	0.75	Slickwater	13,090	33,110	312	788	28.3%	34.4%	8,999	14,726		7
	MESAVERDE	9304	3	3	50 Slickwater Ramp	0	0	Slickwater	0	33,110	0	788	0.0%	0.0%	0	14,726		0
	MESAVERDE	9328	3	3	50 SW Sweep	0.25	0.75	Slickwater	0	33,110	0	788	0.0%	0.0%	0	14,726		0
	MESAVERDE	9354	3	3	50 Slickwater Ramp	0.75	1	Slickwater	13,090	46,200	312	1,100	28.3%	43.8%	11,454	26,180		7
	MESAVERDE			50	Flush (4-1/2)			Slickwater	5,946	52,146	142	1,242				26,180		3
	MESAVERDE			50	ISIP and 5 min ISIP													26
3	MESAVERDE	8873	3	24.8	<< Above pump time (min)			Sand laden	Volume	46,200								
	MESAVERDE	8806	3	Varied	Pump-in test			Slickwater	8,955	8,955	213	213	15.0%	0.0%	0	0		4
	MESAVERDE	8907	3	0	ISIP and 5 min ISIP	0.25	0.625	Slickwater	16,915	25,870	403	616	28.3%	21.9%	7,400	7,400		8
	MESAVERDE	8931	3	50	Slickwater Pad	0.63	0.75	Slickwater	16,915	42,785	403	1,019	28.3%	34.4%	11,629	19,029		8
	MESAVERDE	8957	3	3	50 SW Sweep	0	0	Slickwater	0	42,785	0	1,019	0.0%	0.0%	0	19,029		0
	MESAVERDE	8972	3	3	50 Slickwater Ramp	0.25	0.75	Slickwater	0	42,785	0	1,019	0.0%	0.0%	0	19,029		0
	MESAVERDE	9001	3	3	50 SW Sweep	0.75	1	Slickwater	16,915	59,700	403	1,421	28.3%	43.8%	14,801	33,830		8
	MESAVERDE	9041	3	3	50 Slickwater Ramp			Slickwater	5,792	65,492	138	1,559				33,830		3
	MESAVERDE	9081	3	50	Flush (4-1/2)													33
	MESAVERDE			50	ISIP and 5 min ISIP													
	MESAVERDE			31.2	<< Above pump time (min)			Sand laden	Volume	59,700								
	MESAVERDE			24														
	MESAVERDE																	
	MESAVERDE																	
	MESAVERDE																	
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Stage	Zone	Perfs		SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.	
		Top, ft.	Bot., ft																		
4	MESAVERDE	8646	8647	3	3	Varied	Pump-in test			Slickwater		0	0	0	0						3
	MESAVERDE	8751	8752	3	3	0	ISP and 5 min ISIP			Slickwater	5,670	5,670	135	135	15.0%	0.0%	0	4,686	0	5	
	MESAVERDE	8764	8765	3	3	50	Slickwater Pad		0.25	Slickwater	10,710	16,380	255	390	28.3%	21.9%	4,686	12,049	0	5	
	MESAVERDE	8778	8779	3	3	50	SW Sweep		0	Slickwater	0	16,380	0	0	28.3%	34.4%	7,363	12,049	0	5	
	MESAVERDE	8788	8789	3	3	50	Slickwater Ramp		0.63	Slickwater	10,710	27,090	255	645	28.3%	0.0%	0	12,049	0	5	
	MESAVERDE	8798	8800	3	6	50	SW Sweep		0	Slickwater	0	27,090	0	0	0.0%	0.0%	0	12,049	0	5	
	MESAVERDE					50	Slickwater Ramp		0.25	Slickwater	0	27,090	0	645	28.3%	43.8%	9,371	21,420	0	5	
	MESAVERDE					50	Slickwater Ramp		0.75	1	Slickwater	10,710	37,800	255	900	28.3%		21,420	21,420	3	
	MESAVERDE					50	Flush (4-1/2)				5,644	43,444	134	1,034						22	
	MESAVERDE					ISDP and 5 min ISDP															
5	MESAVERDE	8386	8387	3	3	20.7	Pump-in test			Slickwater		0	0	0	0						5
	MESAVERDE	8417	8418	3	3	0	ISP and 5 min ISIP			Slickwater	10,710	10,710	255	255	15.0%	0.0%	0	8,851	0	10	
	MESAVERDE	8432	8433	3	3	50	Slickwater Pad		0.25	Slickwater	20,230	30,940	482	737	28.3%	21.9%	8,851	22,759	0	10	
	MESAVERDE	8475	8476	3	3	50	Slickwater Ramp		0	Slickwater	0	30,940	0	0	28.3%	34.4%	13,908	22,759	0	10	
	MESAVERDE	8513	8514	3	3	50	SW Sweep		0.63	Slickwater	20,230	51,170	482	1,218	28.3%	0.0%	0	22,759	0	0	
	MESAVERDE	8548	8549	3	3	50	Slickwater Ramp		0	Slickwater	0	51,170	0	0	0.0%	0.0%	0	22,759	0	0	
	MESAVERDE	8560	8561	3	3	50	SW Sweep		0.25	Slickwater	0	51,170	0	1,218	28.3%	43.8%	17,701	40,460	0	10	
	MESAVERDE	8567	8568	3	3	50	Slickwater Ramp		0.75	1	Slickwater	20,230	71,400	482	1,830	28.3%		40,460	40,460	3	
	MESAVERDE					50	Flush (4-1/2)				5,474	76,874	130						38		
	MESAVERDE					ISDP and 5 min ISDP															
6	MESAVERDE	8209	8210	3	3	36.6	Pump-in test			Slickwater		0	0	0	0						
	MESAVERDE	8264	8265	3	3	0	ISP and 5 min ISIP			Slickwater	5,625	5,625	134	134	15.0%	0.0%	0	4,648	0	3	
	MESAVERDE	8291	8292	3	3	50	Slickwater Pad		0.25	Slickwater	10,625	16,250	253	387	28.3%	21.9%	4,648	11,953	0	5	
	MESAVERDE	8302	8303	3	3	50	Slickwater Ramp		0	Slickwater	0	16,250	0	0	28.3%	34.4%	7,305	11,953	0	5	
	MESAVERDE	8315	8317	3	6	50	SW Sweep		0.63	Slickwater	10,625	26,875	253	640	28.3%	0.0%	0	11,953	0	5	
	MESAVERDE	8342	8344	3	6	50	SW Sweep		0	Slickwater	0	26,875	0	0	0.0%	0.0%	0	11,953	0	5	
	MESAVERDE					50	Slickwater Ramp		0.25	Slickwater	0	26,875	0	640	28.3%	43.8%	9,297	21,250	0	5	
	MESAVERDE					50	Slickwater Ramp		0.75	1	10,625	37,500	253	893	28.3%		21,250	21,250	3		
	MESAVERDE					50	Flush (4-1/2)				5,359	42,859	128	1,020						21	
	MESAVERDE					ISDP and 5 min ISDP															

13

[illegible]

[illegible]

Service Company Supplied Chemicals - Job Totals

Friction Reducer	185	gals @	0.3	GPT
Surfactant	618	gals @	1.0	GPT
Clay Stabilizer	0	gals @	0.0	GPT
15% Hcl	3250	gals @	250	gal/stg
Iron Control for acid	16	gals @	5.0	GPT of acid
Surfactant for acid	7	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	20	gals @	6.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	309	gals pumped	0.5	GPT (see schedule)
Biocide	185	gals @	0.3	GPT

NBU 921-35H1BS

Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	9403	9404	3	3	9402	to	9588.5
	MESAVERDE	9464	9465	3	3			
	MESAVERDE	9500	9501	3	3			
	MESAVERDE	9528	9529	3	3			
	MESAVERDE	9544	9546	3	6			
	MESAVERDE	9578	9580	3	6			
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	9,385	
2	MESAVERDE	9108	9109	3	3	9107	to	9358
	MESAVERDE	9123	9124	3	3			
	MESAVERDE	9153	9154	3	3			
	MESAVERDE	9172	9173	3	3			
	MESAVERDE	9296	9297	3	3			
	MESAVERDE	9304	9305	3	3			
	MESAVERDE	9328	9329	3	3			
	MESAVERDE	9354	9355	3	3			
	# of Perfs/stage				24	CBP DEPTH	9,095	
3	MESAVERDE	8873	8874	3	3	8867	to	9088
	MESAVERDE	8906	8907	3	3			
	MESAVERDE	8930	8931	3	3			
	MESAVERDE	8957	8958	3	3			
	MESAVERDE	8972	8973	3	3			
	MESAVERDE	9001	9002	3	3			
	MESAVERDE	9041	9042	3	3			
	MESAVERDE	9081	9082	3	3			
	# of Perfs/stage				24	CBP DEPTH	8,830	
4	MESAVERDE	8646	8647	3	3	8644	to	8805
	MESAVERDE	8751	8752	3	3			
	MESAVERDE	8764	8765	3	3			
	MESAVERDE	8778	8779	3	3			
	MESAVERDE	8788	8789	3	3			
	MESAVERDE	8798	8800	3	6			
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				21	CBP DEPTH	8,596	
5	MESAVERDE	8386	8387	3	3	8384	to	8572
	MESAVERDE	8417	8418	3	3			
	MESAVERDE	8432	8433	3	3			
	MESAVERDE	8475	8476	3	3			
	MESAVERDE	8513	8514	3	3			
	MESAVERDE	8548	8549	3	3			
	MESAVERDE	8560	8561	3	3			
	MESAVERDE	8567	8568	3	3			
	# of Perfs/stage				24	CBP DEPTH	8,374	
6	MESAVERDE	8209	8210	3	3	8208	to	8350
	MESAVERDE	8264	8265	3	3			
	MESAVERDE	8291	8292	3	3			
	MESAVERDE	8302	8303	3	3			
	MESAVERDE	8315	8317	3	6			
	MESAVERDE	8342	8344	3	6			
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	8,159	

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
7	MESAVERDE	7996	7997	3	3	7990	to	8141
	MESAVERDE	8018	8019	3	3			
	MESAVERDE	8078	8079	3	3			
	MESAVERDE	8103	8104	3	3			
	MESAVERDE	8126	8128	3	6			
	MESAVERDE	8136	8138	3	6			
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	7,986	
8	MESAVERDE	7784	7785	3	3	7780	to	7970
	MESAVERDE	7807	7808	3	3			
	MESAVERDE	7821	7822	3	3			
	MESAVERDE	7855	7856	3	3			
	MESAVERDE	7900	7901	3	3			
	MESAVERDE	7913	7914	3	3			
	MESAVERDE	7943	7944	3	3			
	MESAVERDE	7962	7963	3	3			
	# of Perfs/stage				24	CBP DEPTH	7,774	
9	MESAVERDE	7607	7608	3	3	7603	to	7778
	MESAVERDE	7621	7622	3	3			
	MESAVERDE	7662	7664	3	6			
	MESAVERDE	7734	7736	3	6			
	MESAVERDE	7757	7759	3	6			
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	7,582	
10	MESAVERDE	7459	7460	3	3	7452	to	7557
	MESAVERDE	7489	7490	3	3			
	MESAVERDE	7532	7533	3	3			
	MESAVERDE	7538	7540	3	6			
	MESAVERDE	7550	7552	3	6			
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				21	CBP DEPTH	7,062	
11	WASATCH	6825	6828	3	9	6824	to	7034
	WASATCH	6970	6972	3	6			
	WASATCH	7029	7032	3	9			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,794	
12	WASATCH	6572	6574	3	6	6572	to	6766
	WASATCH	6598	6601	3	9			
	WASATCH	6761	6764	3	9			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,317	
13	WASATCH	6242	6246	4	16	6242	to	6291
	WASATCH	6285	6287	4	8			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,192	
	Totals				306	Total Pay		848.5

MD	TVD	EW	NS	INC	AZI	MD	TVD	EW	NS	INC	AZI
0.00	0.00	0.00	0.00	0.00	0.00	4700.00	4602.33	-8.96	731.69	0.00	0.00
100.00	100.00	0.00	0.00	0.00	0.00	4800.00	4702.33	-8.96	731.69	0.00	0.00
200.00	200.00	0.00	0.00	0.00	0.00	4900.00	4802.33	-8.96	731.69	0.00	0.00
300.00	300.00	0.00	0.00	0.00	0.00	5000.00	4902.33	-8.96	731.69	0.00	0.00
400.00	399.98	0.87	1.51	2.00	30.00	5100.00	5002.33	-8.96	731.69	0.00	0.00
450.00	449.93	1.96	3.40	3.00	30.00	5200.00	5102.33	-8.96	731.69	0.00	0.00
500.00	499.86	3.27	5.67	3.00	30.00	5300.00	5202.33	-8.96	731.69	0.00	0.00
550.00	549.79	4.58	7.93	3.00	30.00	5400.00	5302.33	-8.96	731.69	0.00	0.00
600.00	599.71	5.83	10.63	3.84	20.80	5500.00	5402.33	-8.96	731.69	0.00	0.00
700.00	699.36	7.97	18.61	5.68	11.06	5600.00	5502.33	-8.96	731.69	0.00	0.00
800.00	798.68	9.62	30.04	7.60	6.14	5700.00	5602.33	-8.96	731.69	0.00	0.00
900.00	897.56	10.79	44.89	9.55	3.21	5800.00	5702.33	-8.96	731.69	0.00	0.00
1000.00	995.87	11.48	63.15	11.52	1.28	5900.00	5802.33	-8.96	731.69	0.00	0.00
1100.00	1093.50	11.68	84.80	13.49	359.90	6000.00	5902.33	-8.96	731.69	0.00	0.00
1200.00	1190.31	11.40	109.81	15.48	358.87	6100.00	6002.33	-8.96	731.69	0.00	0.00
1293.78	1280.27	10.69	136.29	17.34	358.11	6200.00	6102.33	-8.96	731.69	0.00	0.00
1300.00	1286.21	10.63	138.15	17.34	358.11	6300.00	6202.33	-8.96	731.69	0.00	0.00
1400.00	1381.66	9.64	167.93	17.34	358.11	6400.00	6302.33	-8.96	731.69	0.00	0.00
1500.00	1477.12	8.66	197.72	17.34	358.11	6500.00	6402.33	-8.96	731.69	0.00	0.00
1600.00	1572.57	7.68	227.51	17.34	358.11	6600.00	6502.33	-8.96	731.69	0.00	0.00
1700.00	1668.03	6.69	257.30	17.34	358.11	6700.00	6602.33	-8.96	731.69	0.00	0.00
1800.00	1763.48	5.71	287.09	17.34	358.11	6800.00	6702.33	-8.96	731.69	0.00	0.00
1900.00	1858.94	4.73	316.88	17.34	358.11	6900.00	6802.33	-8.96	731.69	0.00	0.00
2000.00	1954.39	3.75	346.67	17.34	358.11	7000.00	6902.33	-8.96	731.69	0.00	0.00
2100.00	2049.85	2.76	376.46	17.34	358.11	7100.00	7002.33	-8.96	731.69	0.00	0.00
2200.00	2145.30	1.78	406.25	17.34	358.11	7200.00	7102.33	-8.96	731.69	0.00	0.00
2300.00	2240.76	0.80	436.04	17.34	358.11	7300.00	7202.33	-8.96	731.69	0.00	0.00
2400.00	2336.21	-0.19	465.83	17.34	358.11	7400.00	7302.33	-8.96	731.69	0.00	0.00
2500.00	2431.67	-1.17	495.61	17.34	358.11	7500.00	7402.33	-8.96	731.69	0.00	0.00
2600.00	2527.12	-2.15	525.40	17.34	358.11	7600.00	7502.33	-8.96	731.69	0.00	0.00
2700.00	2622.58	-3.14	555.19	17.34	358.11	7700.00	7602.33	-8.96	731.69	0.00	0.00
2800.00	2718.03	-4.12	584.98	17.34	358.11	7800.00	7702.33	-8.96	731.69	0.00	0.00
2855.64	2771.14	-4.67	601.56	17.34	358.11	7900.00	7802.33	-8.96	731.69	0.00	0.00
2900.00	2813.59	-5.09	614.44	16.45	358.11	8000.00	7902.33	-8.96	731.69	0.00	0.00
3000.00	2909.97	-5.97	641.07	14.45	358.11	8100.00	8002.33	-8.96	731.69	0.00	0.00
3100.00	3007.22	-6.74	664.32	12.45	358.11	8200.00	8102.33	-8.96	731.69	0.00	0.00
3200.00	3105.22	-7.40	684.17	10.45	358.11	8300.00	8202.33	-8.96	731.69	0.00	0.00
3300.00	3203.86	-7.94	700.58	8.45	358.11	8400.00	8302.33	-8.96	731.69	0.00	0.00
3400.00	3303.01	-8.36	713.55	6.45	358.11	8500.00	8402.33	-8.96	731.69	0.00	0.00
3500.00	3402.55	-8.68	723.05	4.45	358.11	8600.00	8502.33	-8.96	731.69	0.00	0.00
3600.00	3502.36	-8.88	729.07	2.45	358.11	8700.00	8602.33	-8.96	731.69	0.00	0.00
3700.00	3602.33	-8.96	731.60	0.45	358.11	8800.00	8702.33	-8.96	731.69	0.00	0.00
3722.67	3625.00	-8.96	731.69	0.00	0.00	8900.00	8802.33	-8.96	731.69	0.00	0.00
3800.00	3702.33	-8.96	731.69	0.00	0.00	9000.00	8902.33	-8.96	731.69	0.00	0.00
3900.00	3802.33	-8.96	731.69	0.00	0.00	9100.00	9002.33	-8.96	731.69	0.00	0.00
4000.00	3902.33	-8.96	731.69	0.00	0.00	9200.00	9102.33	-8.96	731.69	0.00	0.00
4100.00	4002.33	-8.96	731.69	0.00	0.00	9300.00	9202.33	-8.96	731.69	0.00	0.00
4200.00	4102.33	-8.96	731.69	0.00	0.00	9400.00	9302.33	-8.96	731.69	0.00	0.00
4300.00	4202.33	-8.96	731.69	0.00	0.00	9500.00	9402.33	-8.96	731.69	0.00	0.00
4400.00	4302.33	-8.96	731.69	0.00	0.00	9600.00	9502.33	-8.96	731.69	0.00	0.00
4500.00	4402.33	-8.96	731.69	0.00	0.00	9700.00	9602.33	-8.96	731.69	0.00	0.00
4600.00	4502.33	-8.96	731.69	0.00	0.00	9782.67	9685.00	-8.96	731.69	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35H1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2143 FNL 0486 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513650000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/12/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div> OTHER: <input type="text" value="Plug Reset"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP set a 4-1/2 HAL 10K CBP plug at 9,610' on 6/24/2014 on the NBU 921-35H1BS well. As we were removing the frac valves on this well, it was discovered that the CBP was not holding. Therefore, on 11/12/2014 a new 10K CBP was successfully set at 9,600'. Please see the operations summary report for details. Thank you.		
NAME (PLEASE PRINT) Kristina Geno		PHONE NUMBER 720 929-6824
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 12/15/2014		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 15, 2014

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35H1BS BLUE				Spud Conductor: 8/17/2011				Spud date: 8/31/2011				
Project: UTAH-UINTAH				Site: NBU 921-35H PAD					Rig name no.:			
Event: RECOMPL/RESEREVEADD				Start date: 6/20/2014						End date:		
Active datum: RKB @5,124.00usft (above Mean Sea Level)				UWI: SE/NE/0/9/S/21/E/35/0/0/26/PM/N/2143/E/0/486/0/0								
Date	Time Start-End		Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation			
6/24/2014	7:00	- 7:30	0.50		48		P		HSM, RIGGING DOWN & UP			
	7:30	- 9:30	2.00	SUBSPR	30	A	P		RIG DWN OFF RED WELL MOVED OVER & RIGGED UP. FTP & FCG 125, CONTROL TBG W/ 15 BBLS, ND WH NU BOPS, RU FLOOR UNLAND TBG, RU SCAN TECH.			
	9:30	- 14:00	4.50	SUBSPR	45	A	P		SCAN OUT W/ 326 JTS 23/8 L-80.296 JTS YELLOW, 28 BLUE, 2 JUNK. RD SCANTECH RU CUTTERS.			
	14:00	- 16:30	2.50	SUBSPR	34	I	P		RUN41/2 GR TO 9660' POOH, RIH SET 41/2 HAL 10K CBP @ 9610' POOH RD WL. SWI SDFN			
11/10/2014									TEST SCG & FV TO 6200 PSI FOR 15 MIN LOST 66 PSI, GOOD TEST 6/25/15			
	8:00	- 10:00	2.00	SUBSPR	47	C	P		WELL HAD 100 PSI ON WELL, HOOKED UP WELL TO FLOW BACK TANK, ATTEMPT TO BLEED WELL DOWN FLOWED FOR 15 MIN WOULDNT BLEED DOWN,SWIFN			
11/12/2014	8:30	- 10:00	1.50	SUBSPR	34	I	P		WELL HAD 100 PSI ON WELL RU EL, RIH SET 10K CBP@ 9600' POOH, BLED WELL DOWN, RD WL SWIFN			

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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PHONE NUMBER: 720 929-6111		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/25/2015	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

An NOI was approved on 4/24/2014 to recomplete the Meseverde formation on the NBU 921-35H1BS well, but due to poor economics Kerr-McGee Oil & Gas Onshore LP respectfully requests to isolate and plugback the Blackhawk formation with a CIBP, cap the CIBP with cement, perform an MIT and leave the well shut-in for a future recomplete. Please see the attached procedure for further details. Thank you.

Approved by the
March 31, 2015
Oil, Gas and Mining

Date: _____
By: Derek Duff

NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/24/2015	

NBU 921-35H1BS (NBU 921-35H Pad)**W.O.#****Plug back Blackhawk perms, MIT, then Shut-in for Future Recomplete****NW NE SE NE Sec 35 T9S R21E****LAT:** 39.993867 **LONG:** -109.511210 **COORDINATE:** NAD83 (*Surface Location*)**Uintah County, UT****ELEVATIONS:** 5,098' GL 5,124' KB *Frac Registry TVD: 10,785'***TOTAL DEPTH:** 10,880' **PBTD:** 10,819'**SURFACE CASING:** 8 5/8", 28# J-55 LTC @ 2,734'**PRODUCTION CASING:** 4 1/2", 11.6#, P-110 DQX @ 5,241'

4 1/2", 11.6#, P-110 LTC @ 10,864'

Marker Joint **5,227-5,248 & 7,530-7,551 & 10,260-10,280'****PRODUCTION TUBING:** There is no tubing in the hole**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# P-110	10691	7560	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1,579' Green River Top

1,787' Bird's Nest Top

2,370' Mahogany Top

4,871' Wasatch Top

7,557' Mesaverde Top

*Based on latest geological interpretation

BOTTOMS:

7,557' Wasatch Bottom

10,880' Mesaverde Bottom (TD)

T.O.C. @ 2292'

**Based on latest interpretation of CBL

Existing Perforations:

<u>PERFORATIONS</u>							
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>
MESAVERDE	BLACKHAWK	10354	10356	4	8		PRODUCTION
MESAVERDE	BLACKHAWK	10368	10372	4	16		PRODUCTION
MESAVERDE	BLACKHAWK	10397	10398	3	3		PRODUCTION
MESAVERDE	BLACKHAWK	10407	10410	3	9		PRODUCTION
MESAVERDE	BLACKHAWK	10416	10418	3	6		PRODUCTION
MESAVERDE	BLACKHAWK	10444	10446	3	6		PRODUCTION
MESAVERDE	BLACKHAWK	10514	10518	4	16		PRODUCTION
MESAVERDE	BLACKHAWK	10734	10736	4	8		PRODUCTION

CONTACT INFORMATION:

IOC		435-781-9751
FOREMAN	Jason Hackford	435-790-6793
MECHANICAL LEAD	Jim Houghton	435-790-6903
OPERATOR	Derrick Wiseman	435-828-7529
OPERATOR	Rhett Whitmire	435-823-4482
ENGINEER	Robert Miller	435-828-6510

Relevant History:

03/16/2012: Originally completed in Blackhawk formation (3 stages) with ~ 326734 gallons of Slickwater, 180508 lbs of 30/50 TLC. C/O to 10819'. Land tubing @ 10357'.

06/24/2014: Scanned tubing out of hole and laid down. Ran a gauge ring and then a CBP to 9610'. Tested casing to 6200psi for 15 minutes, lost 66 psi during test. Left well T&A for recomplete.

Nov 2014: Attempted to remove frac valve, but there was pressure on well. RIH and set another CBP @ 9600' and removed frac valve.

PROCEDURE: (note: there is no tubing in the well, so you will have to get a work string to cap CBP with cement).

1. MIRU. RIH w/ gauge ring to $\pm 10,350'$. RIH w/ a CIBP and set @ 10315'. ND WH, NU BOP's and test.
2. Pick up 2 3/8" workstring and tag CIBP just run. Perform a MIT on the casing to 1000 psi (have charted to send information to the agencies and bring results to Robert Miller). Cap CIBP with 105' of class "G" cement (8 sxs/9.2 ft3/1.6 bbls). POOH with tubing and lay down.
3. Well to remain shut in until a future recomplete.
4. NDBOPE and NUWH.
5. Notify CDC, foreman, & operators of RDMOL

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35H1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2143 FNL 0486 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513650000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/17/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP concluded temporary abandonment operations on the NBU 921-35H1BS well on 6/17/2015. Please see the attached operations summary report for details. Thank you.		
NAME (PLEASE PRINT) Jennifer Thomas		PHONE NUMBER 720 929-6808
SIGNATURE N/A		TITLE Regulatory Specialist
DATE 6/29/2015		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 30, 2015

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35H1BS BLUE				Spud Conductor: 8/17/2011				Spud date: 8/31/2011			
Project: UTAH-UINTAH				Site: NBU 921-35H PAD				Rig name no.: GWS 1/1			
Event: ABANDONMENT				Start date: 6/15/2015				End date: 6/17/2015			
Active datum: RKB @5,124.00usft (above Mean Sea Level)				UWI: SE/NE/0/9/S/21/E/35/0/0/26/PM/N/2143/E/0/486/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation			
6/15/2015	6:45 - 7:00	0.25	ABANDT	48		P		HSM.			
	7:00 - 8:30	1.50	ABANDT	30	A	P		RU RIG. SICP = 200 PSI. BLOW WELL DOWN. ND WH, NU BOP. RU RIG FLOOR & TBG EQUIP.			
	8:30 - 17:00	8.50	ABANDT	31	I	P		PREP & TALLY 23/8 P-110 TBG. PU 33/4 BIT, BIT SUB & DART VALVE. PU TBG OFF TBG FLOAT. RIH W/ 302 JTS T/ 9576'. RU DRL EQUIP. SWIFN.			
6/16/2015	6:45 - 7:00	0.25	ABANDT	48		P		HSM.			
	7:00 - 8:30	1.50	ABANDT	44	C	P		OPEN WELL 0 PSI. BRK CONV CIRC. DRL OUT CBP'S @ 9600' & 9610'. 0 PSI INCR. WELL WENT ON VACUUM. RD DRL EQUIP. PUSH CBP'S T/ PERFS.			
	8:30 - 11:30	3.00	ABANDT	31	I	P		XO TBG EQUIP. POOH LD 6 JTS. STD BCK 324 JTS.			
	11:30 - 12:30	1.00	ABANDT	34	I	P		MIRU CUTTERS WL. PU 4.5 CIBP. RIH SET CIBP @ 10,290'. POOH. RDMO CUTTERS WL.			
	12:30 - 15:00	2.50	ABANDT	31	I	P		PU 23/8 NC. RIH W/ 324 JTS TBG. TAG CIBP @ 10,290'. LD 1 JT.			
	15:00 - 17:00	2.00	ABANDT	52	E	P		MIRU CAMERON TEST TRUCK. PSI TEST CSG T/ 1000 PSI. (MIT TEST) HELD FOR 30 MIN. GAIN 4 PSI. BLEED PSI OFF. SWIFN. RDMO CAMERON TEST TRUCK.			
6/17/2015	6:45 - 7:00	0.25	ABANDT	48		P		HSM.			
	7:00 - 9:30	2.50	ABANDT	51	C	P		OPEN WELL 0 PSI. MIRU PRO PETRO CMT CREW. BRK CONV CIRC. PUMP 5 BBLS FRESH, 8 SX CLASS G CMT, 2 BBLS FRESH, DISP W/ 34.8. TOC @ 10,190'. POOH LD 6 JTS. REV W/ PKR FLUID. RDMO PRO PETRO.			
	9:30 - 15:00	5.50	ABANDT	31	I	P		POOH LD 319 JTS 23/8 P-110 TBG & NC.			
	15:00 - 17:00	2.00	ABANDT	47	A	P		RD RIG MOVE OVER T/ 3rd OF 4 T&A'S.			

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PHONE NUMBER: 720 929-6454		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/6/2016	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS
	<input type="checkbox"/> CHANGE WELL STATUS
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
	<input type="checkbox"/> DEEPEN
	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE
	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> PRODUCTION START OR RESUME
	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> VENT OR FLARE
	<input checked="" type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WATER SHUTOFF
	<input type="checkbox"/> WILDCAT WELL DETERMINATION
	<input type="checkbox"/> OTHER

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP requests to keep the NBU 921-35H1BS well temporarily abandoned. The well was temporarily abandoned on 6/17/2015 to be recompleted. We are deferring recompletion activity for this well and therefore request a TA extension of one-year from the date of the MIT. Please see the attached MIT conducted on this well on 6/6/2016 showing wellbore integrity. Thank you.

Approved by the
June 15, 2016
Oil, Gas and Mining

Date: _____
By: Derek Duff

NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A	DATE 6/8/2016	

Keer McGee			
921-35h1bs Cameron by Austin Ortega			
	Chassis	Left Scale	Right Scale
Serial Number	259925	258749	478035
Datatype		Lower	Upper
Units		PSI G	°F

Lower

Upper

